Manitoba

ANNUAL REPORT

1984

Office of the Fire Commissioner

86-1076/

Annual Report
Office of the Fire Commissioner
Manitoba Labour

1984

July 15, 1985

The Honourable Alvin Mackling

Minister of Labour

Province of Manitoba

Sir:

I have the honour to submit herewith the 1984 Office of the Fire Commissioners' Annual Report, Province of Manitoba.

Your Obedient Servant

A. Thorimbert

A. Thorimbert

Fire Commissioner

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OFFICE OF THE FIRE COMMISSIONER

The Office of the Fire Commissioner administers Part II of the Fires Prevention Act, the Manitoba Fire Code (Regulation 15/77); Fire Hose Couplings and Fittings (Regulation 96/64). In addition the Office also administers the application of the Manitoba Building Code under the Building and Mobile Homes Act.

FUNCTIONS

The overall functions of the Fire Commissioner's Office are:

— To promote and encourage the safety of persons; to reduce life and property loss in respect to fires, dangerous goods, structural and mechanical matters and other related hazards.

— To suppress arson and investigate the cause, origin and circumstances of fires.

— To advise and train the fire service, building officials and other interested groups in Fire Prevention/Protection practices, building inspections, dangerous goods, emergency services management and rescue.

— To advise building officials and other interested persons in the application of the Manitoba Building Code.

— To promote public education in Fire Prevention practices and life safety measures.

— To collect and analyze data to reduce causes of fires and other life safety hazards.

— To recommend relevant legislation.

The Branch which is directed by the Fire Commissioner, has a number of sections to carry out specific functions. These include the Engineering and Technical Services; Manitoba Fire College; Investigation, Prevention and Field Services and Statistical Sections.

STAFF

The staff of the Office in 1984 consisted of the Fire Commissioner and 45 staff persons situated throughout six regional offices.

REVIEW OF 1984

Note: In the report this year, the following sections have been presented on the calendar year: Fire Loss Statistics, Fire Investigations and the Manitoba Fire Chiefs listing. All other sections are presented on the fiscal year April/84 - March/85. This is the new reporting procedure for the province with all future reports prepared in this manner.

The Province of Manitoba recorded 7,185 fire incidences an increase of 424 or six percent over the previous year. The amount of property destroyed by fire rose dramatically by 36% or to $45,242,391.

The main reason for the increase in the number of fires is due to the excess of over 600 incidences in outdoor property alone. In addition structural property losses increased over $10 million from the 1983 reported figures.

Studying the last five years you can see a pattern develope which depicts the number of outdoor property and the total number of fires following the same rise and fall curve. Whereas, the number of vehicle and structural fires remain relatively constant during the same period. This can be seen in Chart 9 which is new this year.

Major loss fires (greater than $250,000) recorded 27 separate incidences attributing to more than $18 million in damages. These figures represent less than one-half of the one percent of the total amount of property destroyed by fire. With the number of major loss fires more than doubling the previous year, you will notice a change in Table 17. This table includes fires which equal or exceeds $500,000.

Within the new minimum, 13 major loss fires were reported in 1984 and concluded as follows; three incendiary, four accidental and six undetermined and/or undetermined - accidental.

There were 33 fire fatalities in 1984, comprised of 13 men; 9 women; and 11 children. Although this represents a 34% decrease in comparison to the 52 reported in 1983 it is very disheartening to report even one death. Once again we must report the majority of fire fatalities occurred in the home. Equal to 1983 - 88% of them occurred in residential properties. The 13 male adults who succumbed by fire in 1984 represents a 50% reduction over the previous year. The number of female adults remained constant at nine while four fewer children died last year in comparison to 1983 statistics.

Fire injuries showed a marked improvement last year. One hundred and eighteen fewer persons were injured, with the greatest reduction in the male adult category.

Tables 5 and 7 have been revised to better define the age groups in which casualties are occurring. Previously, data was reported in seven categories with the range of age inconsistent from one category to the next. Whereas, the new tables contain nine categories beginning with age 'five and under' with increments of 10 to age 65. Several changes have been made to this year's annual report which we feel will meet the needs of numerous requests we have received.

To simplify and expedite the preparation of this document we have computerized all charts and graphs and prepared the entire report on our word processor. We believe this method will allow us to publish and distribute the report up to eight weeks sooner than in past years.

In conjunction with local police authorities, the Fire Investigation Section conducted 452 investigations during 1984. Police forces in the province carried out an additional 471 to bring the total number of fire investigations conducted under the Fires Prevention Act to 923. This represents a slight increase of 4% or 44 investigations.

Accidental fires represented 53% of all investigations conducted with incendiary, vandalism, and undetermined-suspicious accounting for 241 or 26%. Undetermined - accidental causes followed with 184.

Persons charged last year with fire related offenses rose slightly to 86 from the 1983 figure of 79 and convictions increased from 16 in the previous year to 46 in 1984. Seventy-one juveniles were warned last year in comparison to 69 in 1983.

Table 21 illustrates the demand in assisting with the education of police and fire service personnel in the identification of cause, origin and circumstances surrounding fires.

In April, 1984 the office was re-organized in attempt to better serve our clients by providing the services to meet their needs. As a result of the reorganization, the Fire Training and Special Services Section were separated from the Manitoba Fire College and was incorporated with the existing Prevention Section to form the Fire Prevention and Field Services Section. This section will provide consultations, assistance and training to all fire service personnel; government agencies and municipal councils on all fire prevention/protection matters. Section staff continued to conduct fire prevention inspections regularly in residential care and day care facilities; senior citizen housing and all institutional occupancies.

In co-operation with the Department of Northern Affairs under the Northland Agreement the Field Services section continued to promote fire prevention through the 700 dwelling inspections and re-inspections conducted in 1984. Fire safety education programs, film showings and lectures to school children as well as training of local fire department personnel were also provided by the section.

In 1983, the Fire Commissioner became responsible for the administration of the Manitoba Building Code in conjunction with the Manitoba Fire Code which he has been administering since its adoption in 1977. As a result of the transfer, the Engineering and Technical Services Section was established. November, 1984 saw the further transfer of responsibilities concerning those areas of the Building and Mobile Homes Act which pertains to mobile homes, recreational vehicles, plumbing and the installation of solid fuel burning appliances to the Office of the Fire Commissioner. This new acquisition of authority gives the Fire Commissioner of Manitoba the "Authority Having Jurisdiction" for those areas covered by the Building and Mobile Homes Act.

Two new tables have been added to report the activities of the staff in this area. The purpose of the changeover during the past two years is to ensure uniformity in the administration and application of both codes.

The Building Standards Board and its eight Standing Committees met on 33 occasions to discuss all aspects of the Manitoba Building Code. A new task group was established and met to investigate the provision of regulations for Retrofitting and Renovations of Existing Buildings. Ten meetings were held by the Fire Advisory Committee; Fire Alarm Systems and Fire Code Subcommittees in 1984.

The Manitoba Fire College continued to meet the demands of the fire service and personnel working in care institutions; government staff, the insurance industry and the general public by providing 147 courses which were attended by 2,059 candidates.

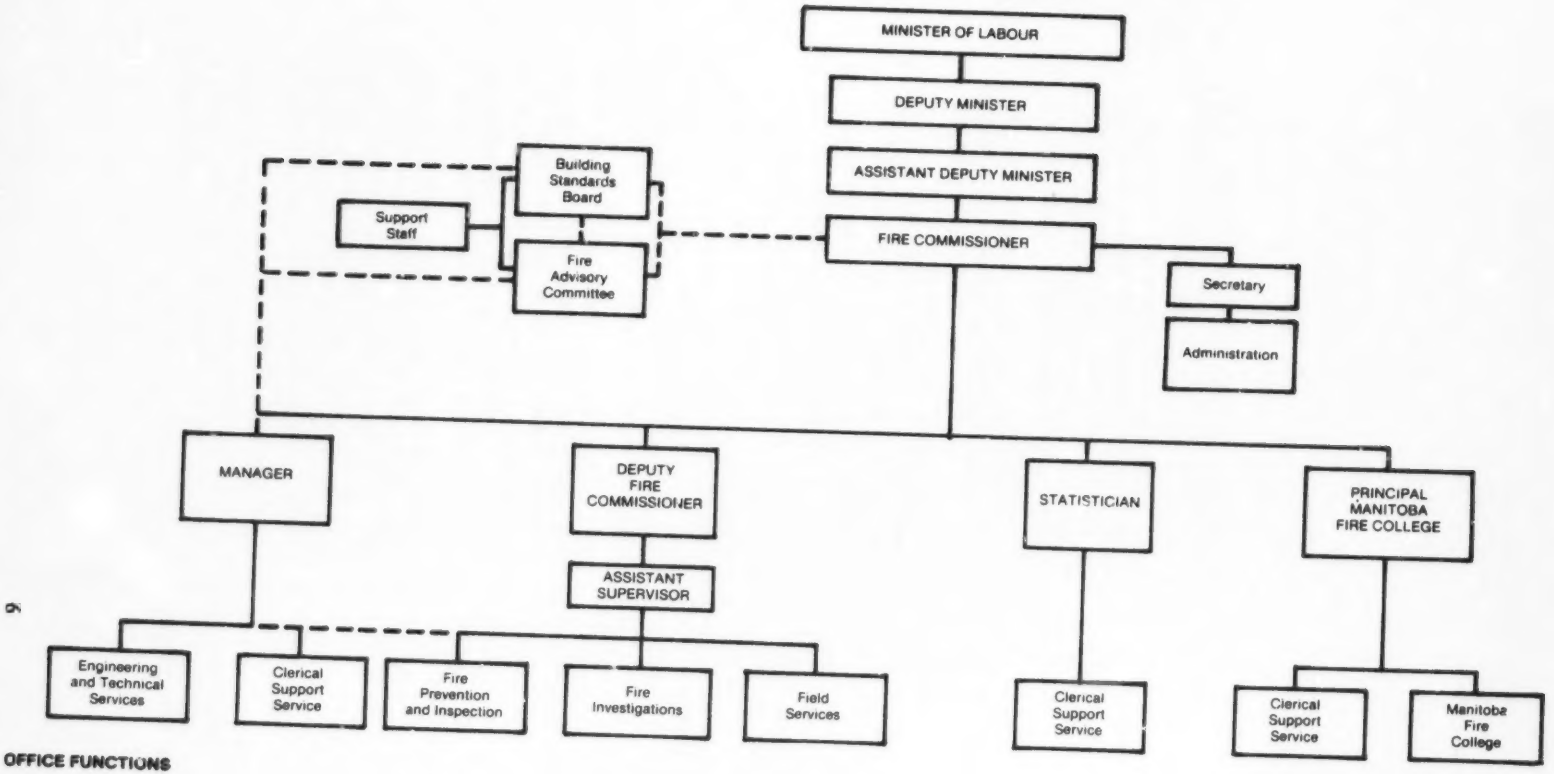
Construction of the new training centre situated adjacent to the Assiniboine Community College in Brandon is nearing completion at the time of writing. It is anticipated staff will be moving in shortly thereby, providing courses and programs on-site from the new training centre, in addition to the present college satellite facilities in Thompson and Winnipeg.

The office participated in conjunction with many other government departments and outside organizations during the Papal visit to Winnipeg last September. Numerous staff members worked diligently for months to ensure the visit came off in a well organized manner and without incident.

'Thanks' are once again in order to the various organizations and agencies which support and assist the Office in carrying out its responsibilities. All staff look forward to continuing the excellent working relationship with fire and police services in the Province as well as with members of the insurance industry.

FUNCTIONS OF THE OFFICE OF THE FIRE COMMISSIONER

PROVINCE OF MANITOBA



OFFICE FUNCTIONS

ENGINEERING AND TECHNICAL SERVICES

Examines plans and specifications for:
New and Existing Buildings containing:
- Hazardous Products
- Spray Painting
- Automatic Extinguishing Systems
- Flammable Liquids

Applies and Interprets the
- Manitoba Fire Code
- Manitoba Building Code and Referenced Standards

Inspects; and Issues Permits to Sell Mobile Homes and Recreational Vehicles

FIRE PREVENTION AND INSPECTION

Inspection of:
- Public Buildings
- Schools
- Hotels and Motels
- Institutions
- Industrial Establishments

Instruct and lecture to staff of hospitals, schools, fire departments and industrial establishments

Administer:
- Municipal Fire Prevention Program

FIRE INVESTIGATIONS

Detection of arson
Determination of cause and origin
Investigation of fires resulting in injuries or fatalities
Instruct and lecture to law enforcement authorities and fire departments re: arson investigation

FIELD SERVICES

Assist fire department in:
- Organization Requirements
- Equipment Requirements
- Apparatus Requirements
- Mutual Aid

Conduct:
- Fire Protection Surveys
- Fire Pumper Specifications
- Fire Pumper Tender Perusal and Assessments
- Fire Pumper Performance and Acceptance Field Test

Instruct:
- On the Control of Dangerous Goods Incidents

STATISTICS

Compile and disseminate uniform fire loss statistics
Prepare Annual Report
Instruct to:
fire departments and insurance adjusters re: fire loss reporting

MANITOBA FIRE COLLEGE

Certification Program
Certify:
- Paid and Volunteer Fire Fighters
- Fire Service Instructors
- Fire Prevention Officers
- Institutional Fire Marshals
- Institutional Staff

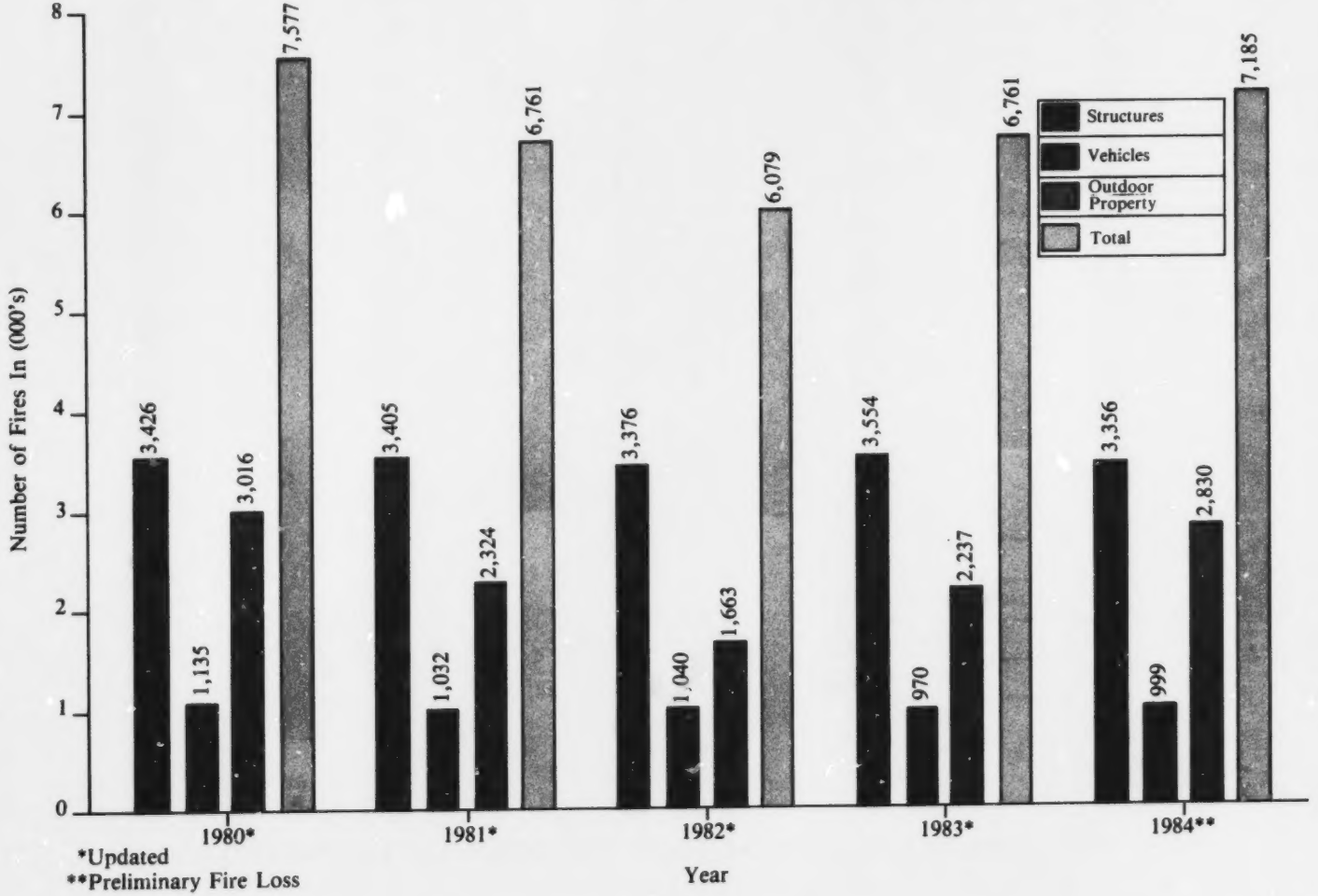
Regional Offices
Winnipeg (2), Brandon, Dauphin Thompson, Portage la Prairie

SECTION I

FIRE LOSS STATISTICS

Chart No. 1

COMPARATIVE CHART OF THE TOTAL NUMBER OF FIRES IN MANITOBA, 1980 - 1984



*Updated
**Preliminary Fire Loss

Chart No. 2

COMPARATIVE CHART OF THE TOTAL DOLLAR LOSS IN MANITOBA, 1980 - 1984

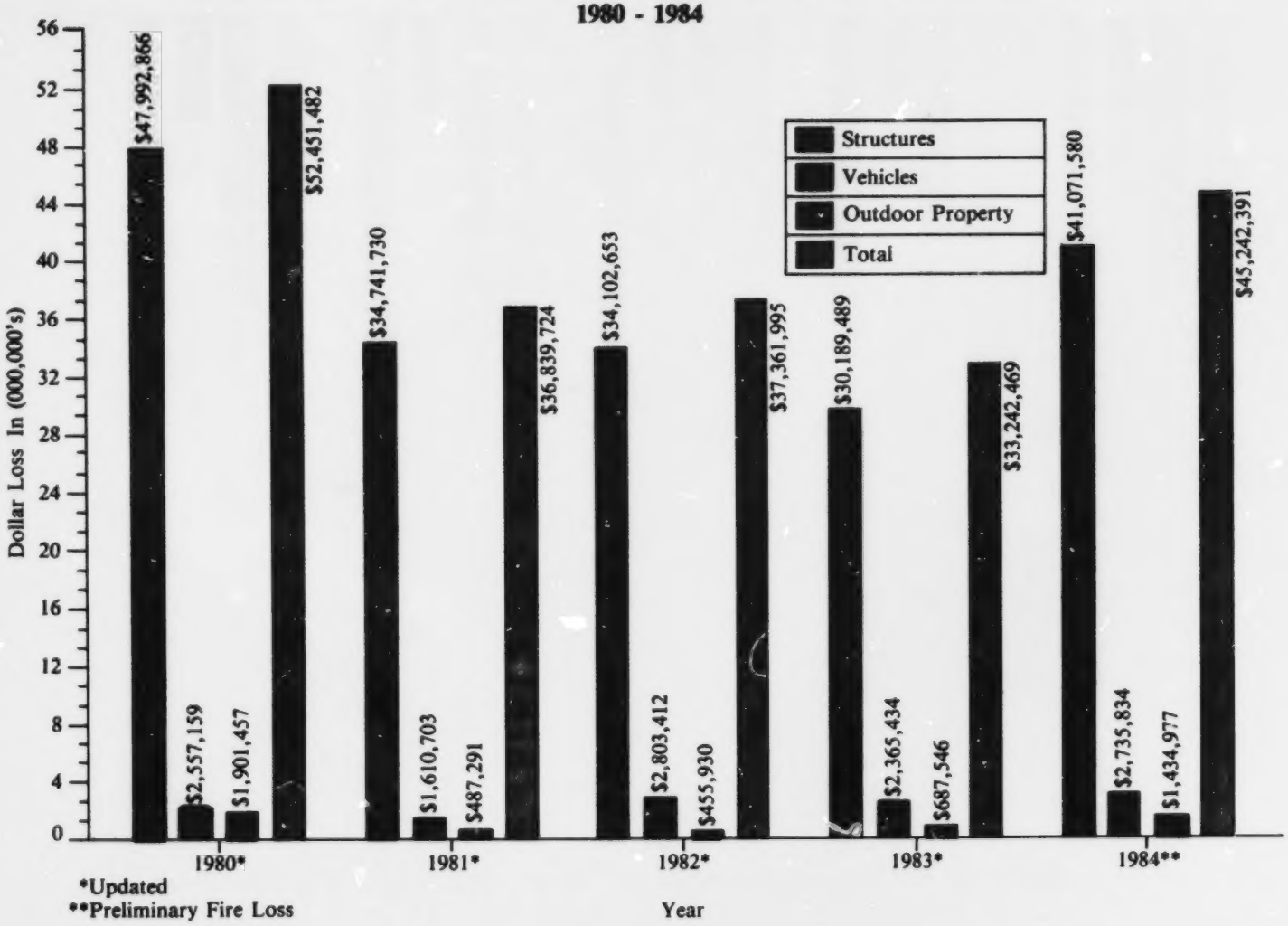


Table No. 1
DISTRIBUTION OF FIRES BY AMOUNT OF DOLLAR LOSS, 1984

Amount of Dollar Loss Minimum	Maximum	Number of Fires	Percentage of Total	Dollar Loss	Percentage of Total
Less than	$ 100.00	3,799	52.86%	$ 10,248	.02%
100.00 to	999.99	1,421	19.78	577,808	1.28
1,000.00 to	9,999.99	1,378	19.18	4,333,116	9.58
10,000.00 to	49,999.99	428	5.96	9,497,692	20.99
50,000.00 to	249,999.99	132	1.84	12,740,562	28.16
250,000.00 and greater		27	.38	18,082,965	39.97
Total		**7,185**	**100.00%**	**$45,242,391**	**100.00%**

Table No. 2
FIRES AND FIRE LOSSES BY MONTH, 1984

Month	Number of Fires	Percentage of Total	Dollar Loss	Percentage of Total
January	457	6.36%	$ 2,974,364	6.57%
February	382	5.32	3,467,163	7.66
March	472	6.57	8,050,318	17.80
April	1,190	16.56	3,172,168	7.01
May	815	11.34	2,440,324	5.39
June	494	6.88	2,903,144	6.42
July	519	7.22	3,455,360	7.64
August	789	10.98	6,526,391	14.43
September	614	8.55	4,139,674	9.15
October	577	8.03	2,926,595	6.47
November	411	5.72	2,336,256	5.16
December	465	6.47	2,850,634	6.30
Total	**7,185**	**100.00%**	**$45,242,391**	**100.00%**

Chart No. 3

NUMBER OF FIRES BY DAY OF WEEK,

1984

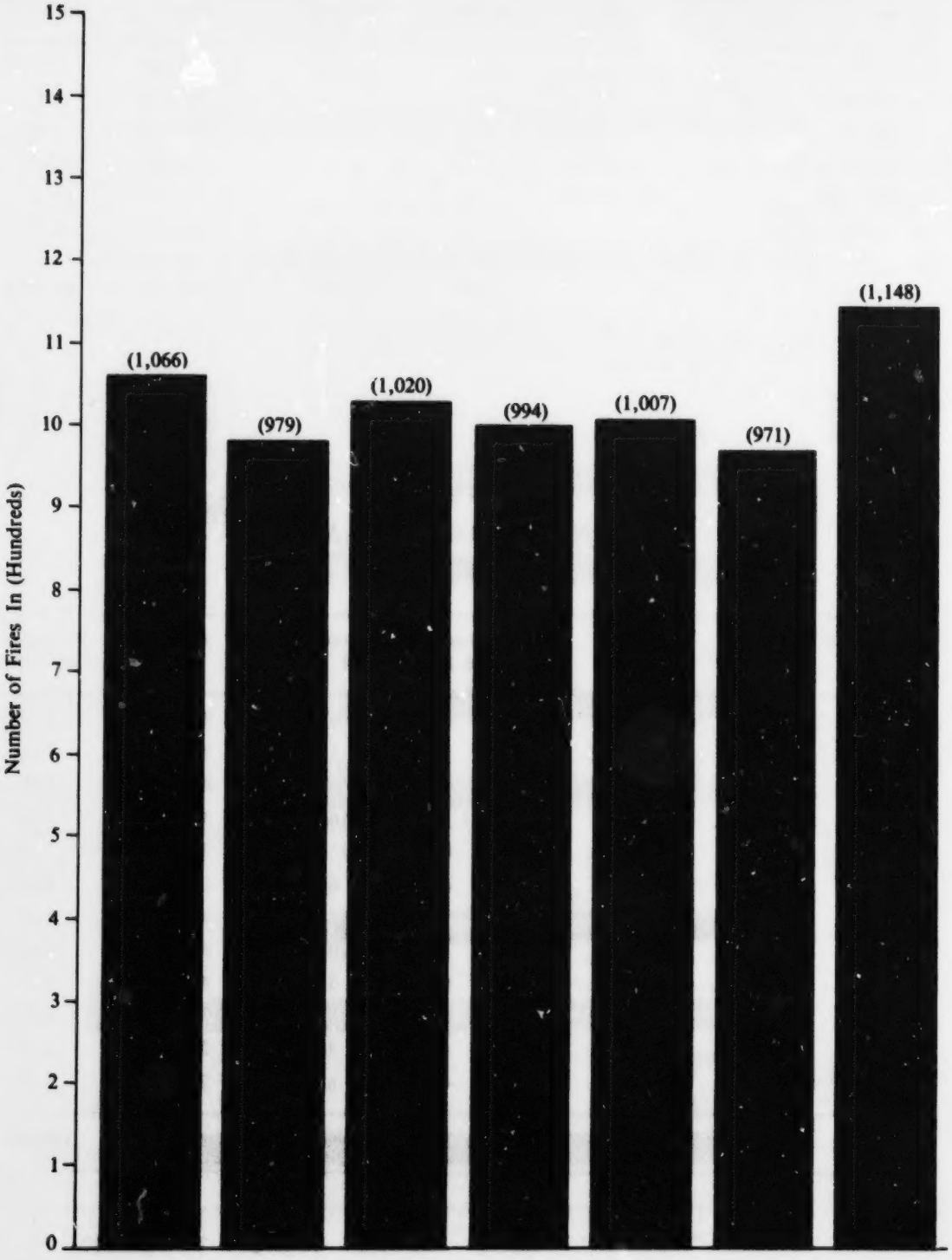
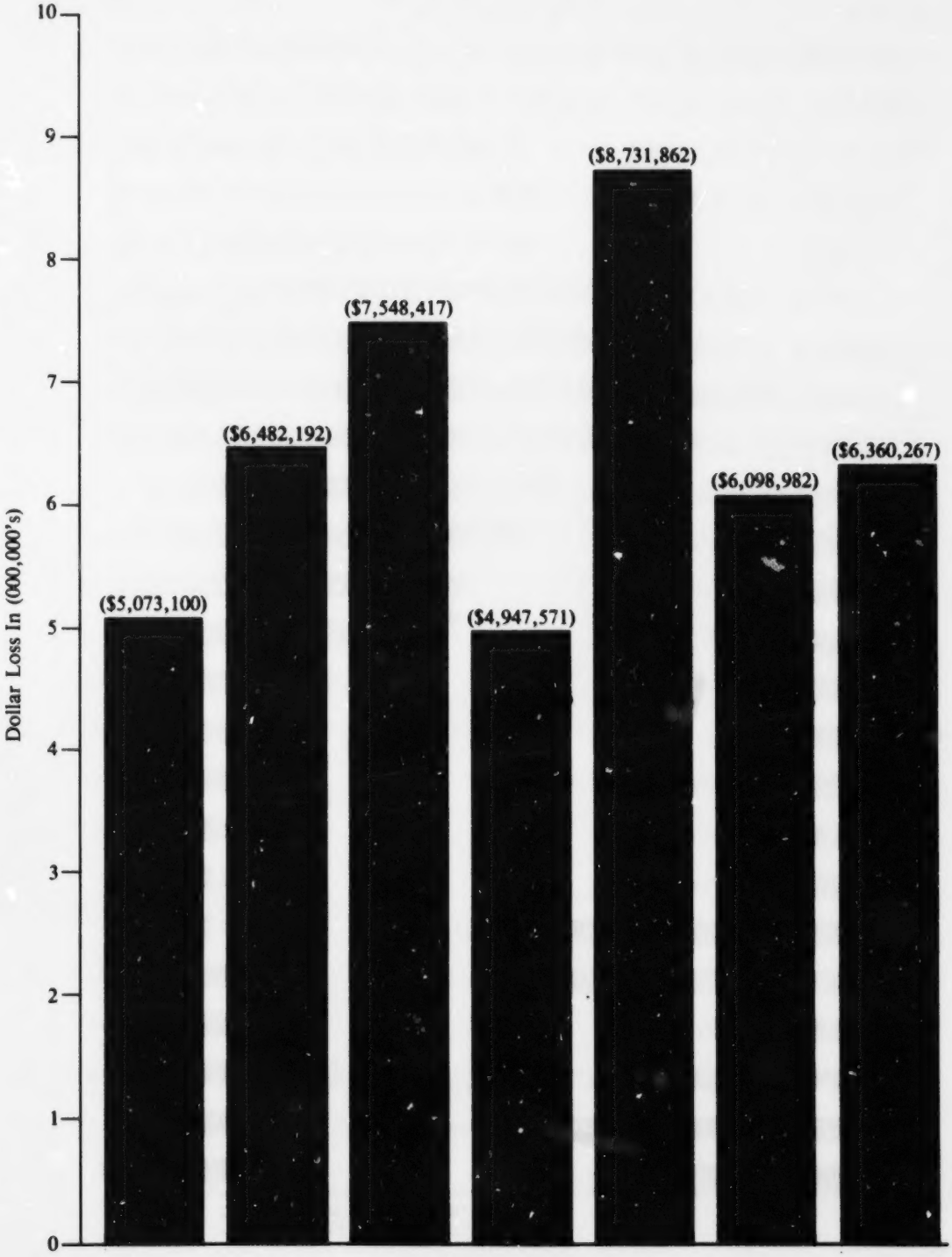


Chart No. 4
DOLLAR LOSS BY DAY OF WEEK, 1984



Charts No. 5
NUMBER OF FIRES BY HOUR OF DAY, 1984

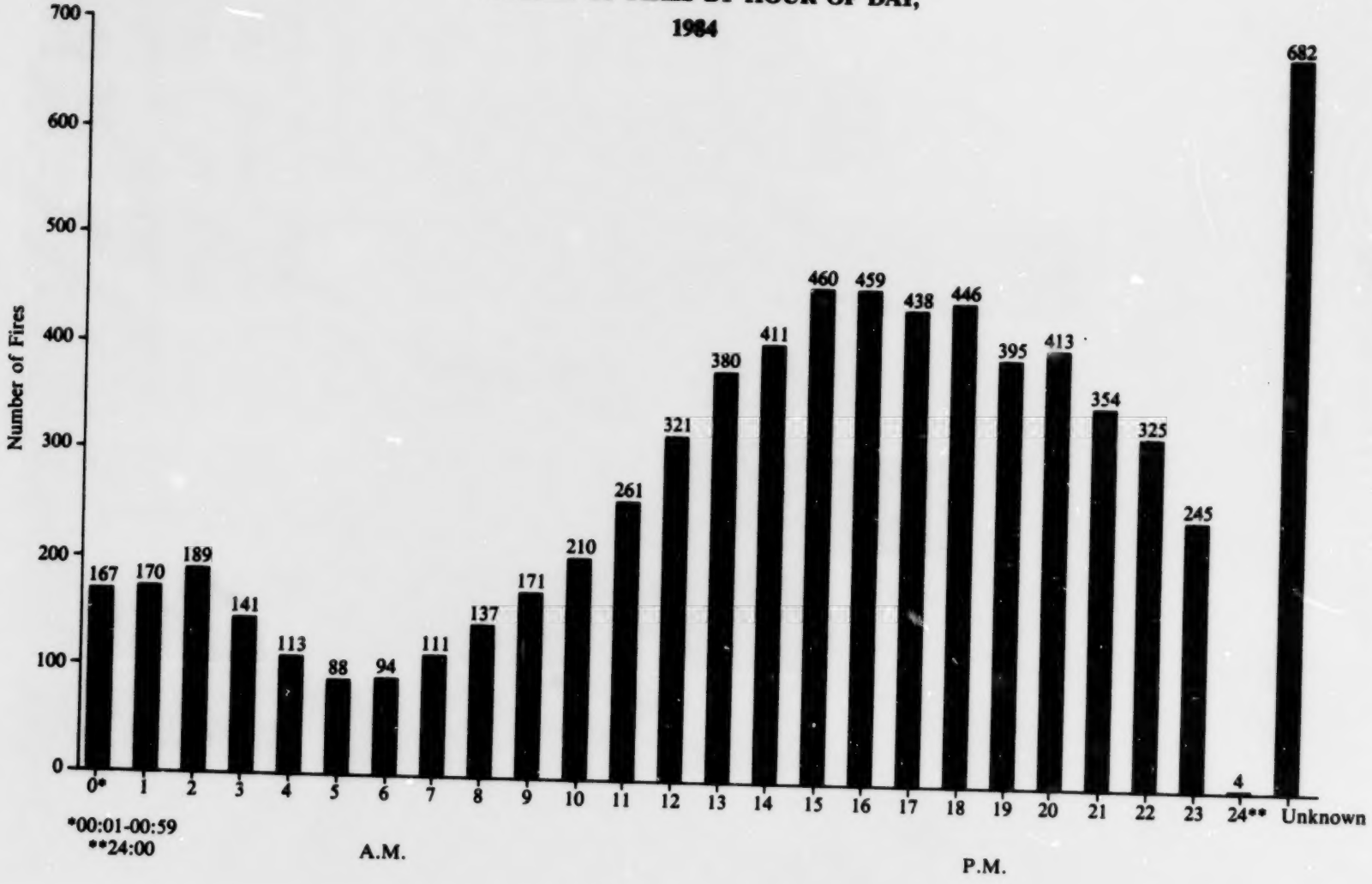


Chart No. 6
DOLLAR LOSS BY HOUR OF DAY, 1984

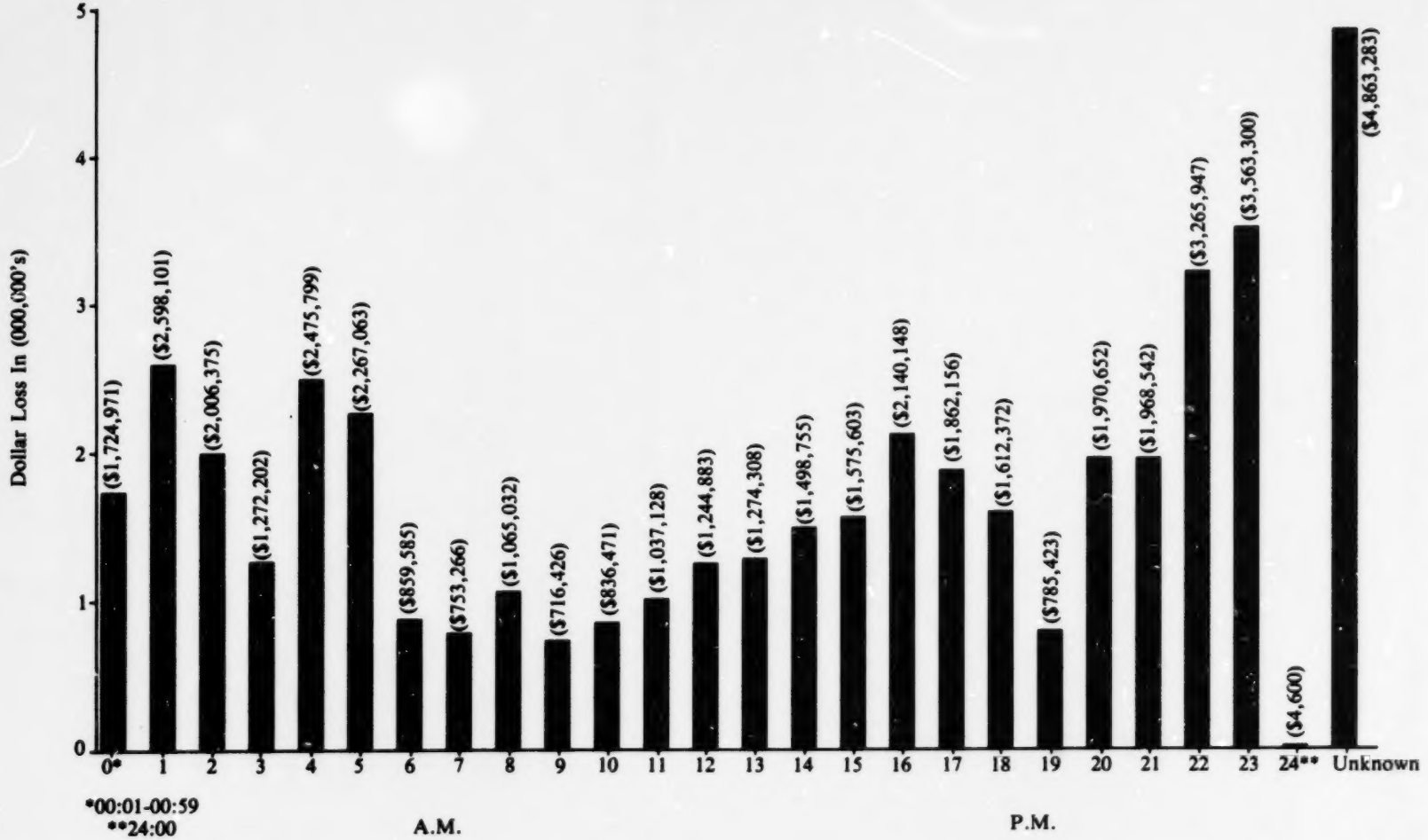


Table No. 3

NUMBER OF FIRES RESULTING IN DEATH AND DETAILS OF FATALITIES, 1975 - 1984

Year	Number of Fatal Fires	Men	Women	Children[1]	Total Fatalities
1975	30	16	11	8	35
1976	33	27	12	9	48
1977	43	46	15	14	75
1978	39	31	8	13	52
1979	32	24	6	14	44
1980	27	13	11	12	36
1981	36	25	15	12	52
1982	30	15	13	11	39
1983	36	26	9	15	50
1984	22	13	9	11	33

[1]Fifteen years of age and under

Table No. 4

BREAKDOWN OF FIRE FATALITIES BY PROPERTY CLASSIFICATION, 1984

Property Classification	Men	Women	Children	Total	Percent
Residential					
One and Two Family Residences,					
Duplex	9	8	9	26	78.79%
Apartment, Condominium	1	-	-	1	3.03
Mobile Home	1	-	-	1	3.03
Dormitory	-	1	-	1	3.03
Motor Vehicles	2	-	1	3	9.09
Electrical Transformer	-	-	1	1	3.03
Total	**13**	**9**	**11**	**33**	**100.00%**

Table No. 5
FIRE FATALITIES BY AGE AND SEX,
1984

	Five Years and Under	6-15	16-25	26-35	36-45	46-55	56-65	Over 65	Unknown	Total
Male	3	4	4	2	1	2	4	-	-	20
Female	4	-	2	1	1	1	2	2	-	13
Total	**7**	**4**	**6**	**3**	**2**	**3**	**6**	**2**	**-**	**33**

Table No. 6
NUMBER OF FIRE INJURIES,
1984

	Men	Women	Children	Total
Injuries	149	50	23	222

Table No. 7
FIRE INJURIES BY AGE AND SEX,
1984

	Five Years and Under	6-15	16-25	26-35	36-45	46-55	56-65	Over 65	Unknown	Total
Male	5	13	34	39	31	16	10	4	15	167
Female	3	2	12	12	4	4	4	4	10	55
Total	**8**	**15**	**46**	**51**	**35**	**20**	**14**	**8**	**25**	**222**

Chart No. 7
FIRE FATALITIES BY HOUR OF DAY, 1984

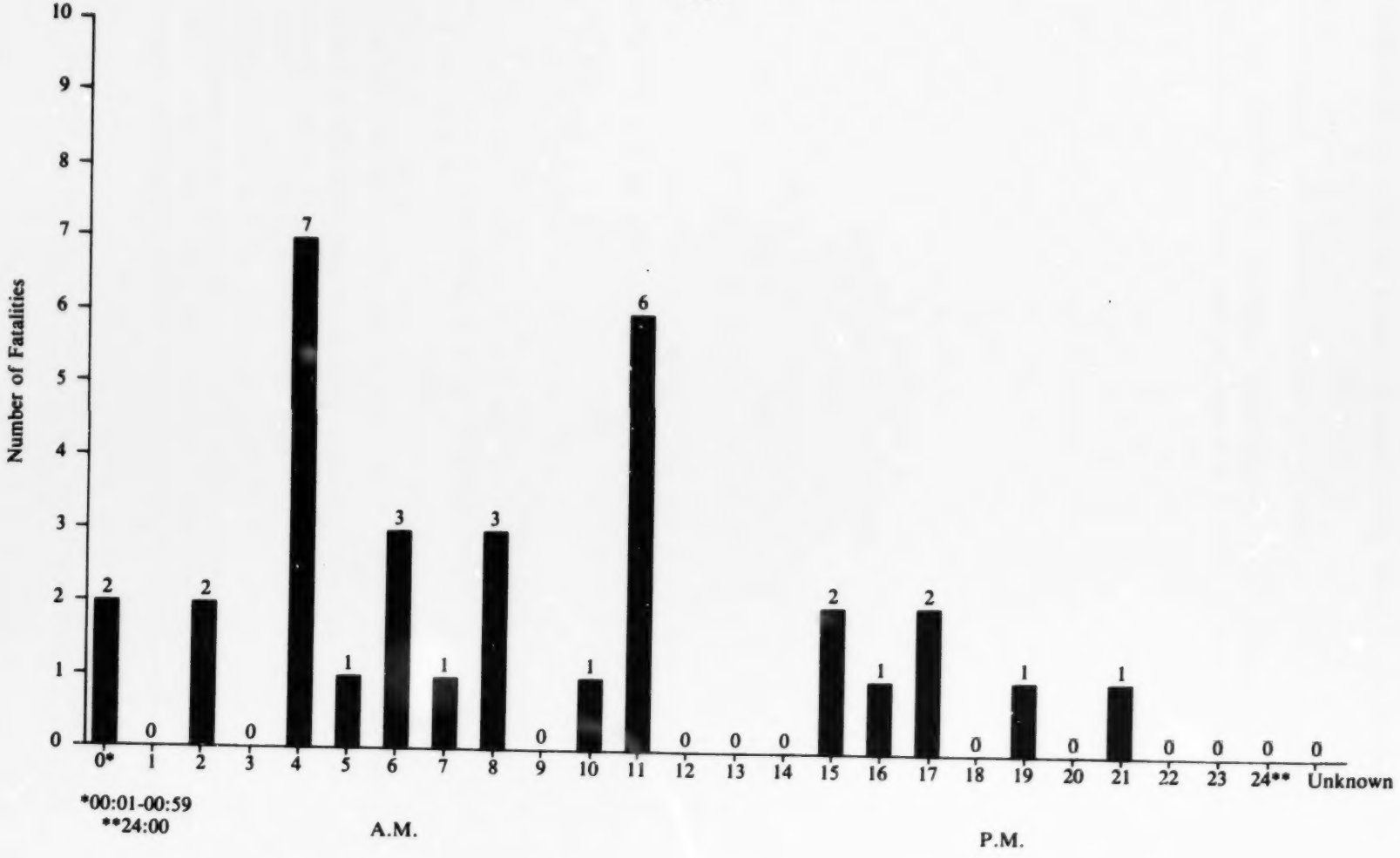


Chart No. 8
FIRE INJURIES BY HOUR OF DAY, 1984

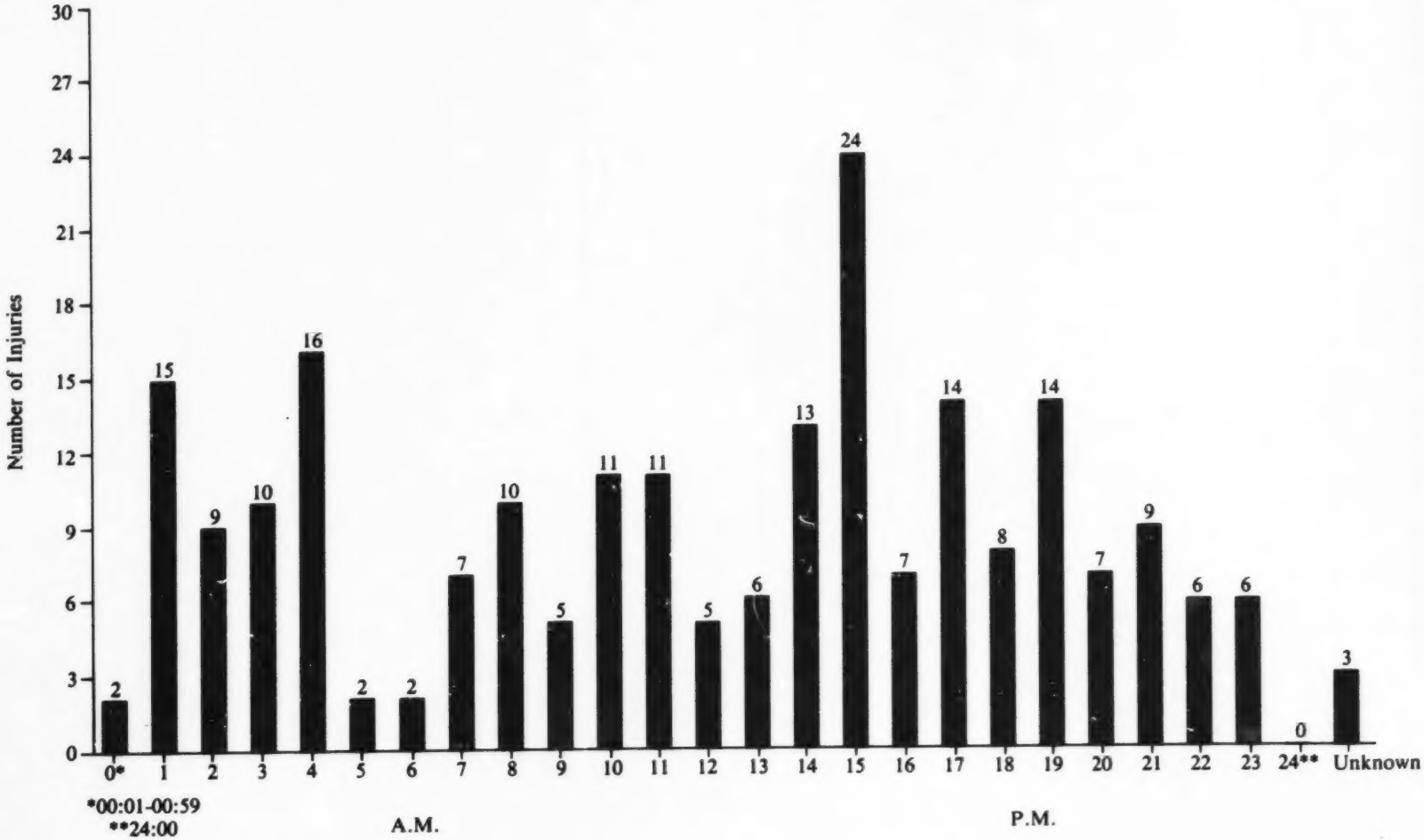


Table No. 8

BREAKDOWN OF FIRE FATALITIES BY ACT OR OMISSION, 1984

Act or Omission	Men	Women	Children	Total	Percent
Incendiary or Set Fire	2	2	-	4	12.12%
Misuse of Source of Ignition	1	1	1	3	9.09
Misuse of Material Ignited	1	-	1	2	6.06
Mechanical, Electrical Failure Malfunction	-	-	1	1	3.03
Construction, Design or Installation Deficiency	-	-	-	-	-
Misuse of Equipment	-	-	-	-	-
Human Failing	5	1	-	6	18.18
Vehicle Accident	1	-	1	2	6.06
Still Under Investigation	-	1	1	2	6.06
Undetermined	3	4	6	13	39.40
Unclassified	-	-	-	-	-
Total	**13**	**9**	**11**	**33**	**100.00%**

Table No. 9

CIRCUMSTANCES CONTRIBUTING TO FIRE CASULATIES, 1984

Condition of Casualty at Time of Fire	Fatalities	Injuries
Not applicable	4	152
Asleep at time of fire	6	31
Bedridden or other physical or mental handicap	2	2
Impairment by Alcohol	3	3
Impairment by Drugs	-	1
Under restraint or detention	-	-
Too young to act	2	3
Senile	-	-
Left unattended (children)	-	1
Unclassified or unknown	16	29
	33	**222**

Action of Casualty at Time of Fire	Fatalities	Injuries
Not applicable	10	63
Injured while attempting to escape	1	36
Over-exertion, heart attack, etc.	-	2
Voluntarily entered or remained for rescue purposes	-	3
Voluntarily entered or remained for fire fighting	-	76
Voluntarily entered or remained to save personal property	1	2
Loss of judgement; panic	2	7
Received delayed warning	-	5
Parents or guardian injured	-	-
Unclassified or unknown	19	28
	33	**222**

Table No. 9 (continuted)

CIRCUMSTANCES CONTRIBUTING TO FIRE CASUALTIES, 1984

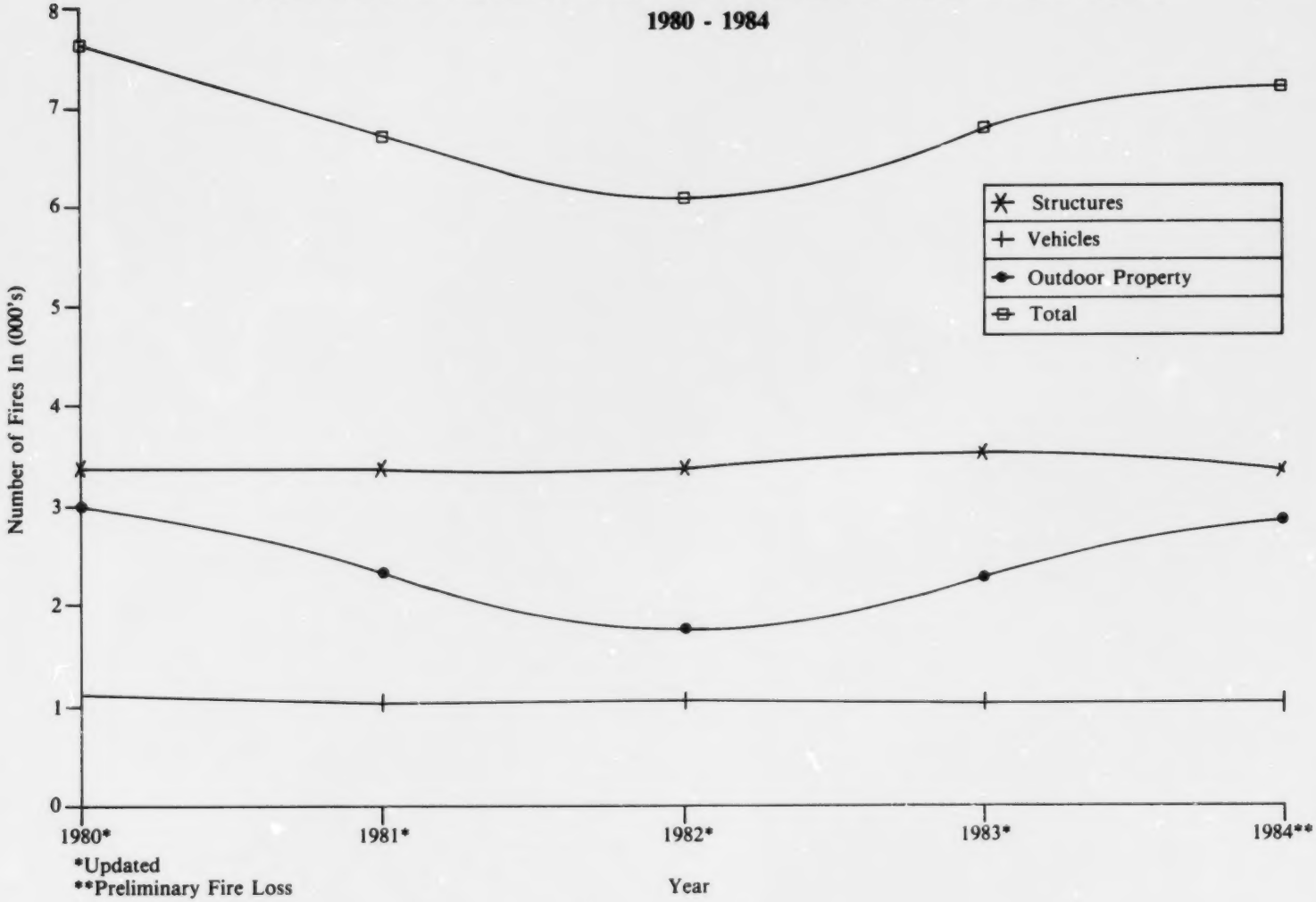
Ignition of Clothing at Time of Fire	Fatalities	Injuries
Not applicable	6	164
Outer clothing	2	14
Sleepwear	1	1
Underclothing	1	1
Costume	-	-
Bedding or bed linen; mattress or pillow	2	8
Upholstered furniture	7	8
Unclassified or unknown	14	26
	33	222

Type of Fabric or Material Ignited	Fatalities	Injuries
Not applicable	6	161
Cotton	-	8
Wool	-	-
Other natural fibre	-	6
Rayon (viscose)	-	-
Other synthetic fibre	2	3
Mixture fibres	-	2
Rubber	-	1
Plastic foam	-	5
Unclassified or unknown	25	36
	33	222

Cause of Failure to Escape	Fatalities	Injuries
Not applicable	3	156
Trapped by: rapid spread of fire/smoke through vertical openings; stairways, elevators	-	6
Trapped by: rapid spread of fire/smoke through horizontal openings	10	4
High flame spread of combustible interior finish of walls, ceilings, or floors	1	3
Building collapse	-	1
Falling debris	-	-
Explosion	3	7
Exit blocked or obstructed by fire	1	1
Outdoor fires, includes forest and bush	-	15
Unclassified or unknown	15	29
	33	222

Chart No. 9

COMPARATIVE CHART OF THE TOTAL NUMBER OF FIRES IN MANITOBA, 1980 - 1984



*Updated
**Preliminary Fire Loss

Table No. 10

LOSSES BY MAJOR PROPERTY CLASSIFICATIONS,

1984

Property Classification	Number of Fires	Percent	Amount	Percent
ASSEMBLY				
Theatre, Studio, Auditorium	-	- %	$ -	- %
Amusement and Recreation Place	23	.32	133,625	.30
School, College, University	32	.45	4,811,380	10.64
Church, Court Room, Funeral Parlour	7	.10	435,202	.96
Social, Sport Club	7	.10	300,300	.66
Library, Museum	1	.01	13,946	.03
Eating Establishment	41	.57	1,074,189	2.37
Passenger Terminal, Station	-	-	-	-
Miscellaneous	1	.01	-	-
Sub-total	**112**	**1.56**	**6,768,642**	**14.96**
INSTITUTIONAL				
Prison, Jail, Reformatory	8	.11	20	-
Home for the Aged	20	.28	11,975	.02
Children's Hospital	-	-	-	-
Hospital, Sanitorium, Clinic	30	.42	3,780	.01
Miscellaneous	-	-	-	-
Sub-total	**58**	**.81**	**15,775**	**.03**
RESIDENTIAL				
Residential	1,725	24.00	12,939,883	28.60
Apartment	390	5.43	1,690,805	3.74
Rooming, Boarding House	18	.25	21,070	.05
Hotel	35	.49	1,031,616	2.28
Motor Hotel	5	.07	537,642	1.19
Dormitory	6	.08	14,100	.03
Mobile Home	69	.96	556,759	1.23
Miscellaneous	9	.13	8,970	.02
Sub-total	**2,257**	**31.41**	**16,800,845**	**37.14**
BUSINESS AND PERSONAL SERVICES				
Office	23	.32	1,086,521	2.40
Personal Service	3	.04	20,400	.05
Electronic Equipment	-	-	-	-
Miscellaneous	-	-	-	-
Sub-total	**26**	**.36**	**1,106,921**	**2.45**
MERCANTILE				
Food, Beverage Sale	13	.18	299,776	.66
Textile, Wearing Apparel Sale	1	.01	50	-
Furniture, Appliance, Hardware Sale	12	.17	258,059	.57
Books, Newspapers, Drugs, Specialties	7	.10	35,000	.08
Recreation, Hobby Supplies	13	.18	267,606	.59
Repair Shop, Laundry, Dry Cleaner	16	.22	591,159	1.31
Motor Vehicle, Boat, Sales and Service	45	.63	907,226	2.01
Department, Variety Store	8	.11	994,394	2.19
Miscellaneous	8	.11	1,450	-
Sub-total	**123**	**1.71**	**3,354,720**	**7.41**
INDUSTRIAL MANUFACTURING PROPERTIES				
Chemical, Petroleum, Paints, Plastics	8	.11	12,600	.03
Wood, Furniture, Paper Printing	26	.36	750,613	1.66
Metal, Metal Products, Electrical Appliances	17	.24	362,678	.80
Food Processing	21	.29	725,075	1.60
Beverages, Tobacco, Soap, Margarine	4	06	1,305,000	2.88
Textiles	1	.01	30,000	.07
Footwear, Wearing Apparel	7	.10	8,550	.02
Vehicles and Related Equipment	8	.11	51,950	.11
Miscellaneous	5	.07	2,005,500	4.44
Sub-total	**97**	**1.35**	**5,251,966**	**11.61**

Table No. 10 (continued)

LOSSES BY MAJOR PROPERTY CLASSIFICATIONS,

1984

Property Classification	Number of Fires	Percent	Amount	Percent
INDUSTRIAL STORAGE PROPERTIES				
Agricultural Products	20	28%	$ 1,208,481	2.68%
Textiles, Fibres, Clothing	2	.03	1,000	-
Processed Food, Beverages	1	.01	-	-
Flammable Liquids, Gasses, Petroleum	2	.03	1,200	-
Wood Furniture, Paper and Products	6	.08	10,070	.02
Chemicals, Plastics, Paints	1	.01	10,000	.02
Metal Goods, Machinery, Electrical Appliances	2	.03	15,000	.03
Vehicles	157	2.19	1,263,368	2.79
Miscellaneous	28	.39	533,990	1.19
Sub-total	**219**	**3.05**	**3,043,109**	**6.73**
SPECIAL PROPERTY-TRANSPORTATION EQUIPMENT				
Outdoor Property	2,826	39.32	1,432,677	3.17
Pier, Wharf	4	.06	2,300	.01
Under Construction/Demolition: Vacant	120	1.67	929,739	2.06
Watercraft	9	.13	33,698	.07
Rail Transport Vehicle and Equipment	21	.29	214,725	.47
Ground Transport Vehicle	801	11.15	1,218,410	2.69
Aircraft	3	.04	2,000	-
Special Vehicle	163	2.27	1,258,361	2.78
Miscellaneous	2	.03	8,640	.02
Sub-total	**3,949**	**54.96**	**5,100,550**	**11.27**
MISCELLANEOUS				
Laboratories	-	-	-	-
Farm Facilities	220	3.07	3,502,876	7.74
Miscellaneous Outbuildings	79	1.11	243,182	.54
Utility	39	.54	27,045	.06
Cement, Glass, Pottery Manufacturing	1	.01	400	-
Mining, Quarrying	1	.01	25,000	.06
Communications	1	.01	673	-
Nucleonics	-	-	-	-
Miscellaneous	3	.04	687	-
Sub-total	**344**	**4.79**	**3,799,863**	**8.40**
Total	**7,185**	**100.00%**	**$45,242,391**	**100.00%**

Table No. 10(a)

BREAKDOWN OF AREA OF ORIGIN OF FIRES BY PROPERTY CLASSIFICATION, 1984

Area of Origin of Fire	Assembly				Institutional			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Means of Egress	12	10.71%	$ 404,196	5.97%	4	6.90%	$ 205	1.30%
Assembly, Sales Area	11	9.82	3,168,430	46.82	13	22.41	10,540	66.81
Function Area	42	37.50	907,108	13.40	36	62.08	4,030	25.55
Storage Area	17	15.18	215,400	3.18	1	1.72	-	-
Service Facilities	3	2.68	300	-	1	1.72	-	-
Service and Equipment Area	10	8.93	1,841,012	27.20	2	3.45	1,000	6.34
Structural Area	9	8.04	37,200	.55	-	-	-	-
Vehicle Area	-	-	-	-	-	-	-	-
Outside Area	1	.89	300	-	-	-	-	-
Undetermined/Unclassified	7	6.25	194,696	2.88	1	1.72	-	-
Total	**112**	**100.00%**	**$ 6,768,642**	**100.00%**	**58**	**100.00%**	**$ 15,775**	**100.00%**

Table No. 10(b)

BREAKDOWN OF AREA OF ORIGIN OF FIRES BY PROPERTY CLASSIFICATION, 1984

Area of Origin of Fire	Residental				Business and Personal Services			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Means of Egress	98	4.34%	$ 517,853	3.08%	3	11.54%	$ 6,300	.57%
Assembly, Sales Area	319	14.14	2,835,328	16.88	3	11.54	516,045	46.62
Function Area	1,089	48.26	5,891,670	35.06	11	42.30	562,451	50.81
Storage Area	133	5.89	1,351,791	8.05	5	19.23	20.075	1.81
Service Facilities	281	12.45	1,196,470	7.12	-	-	-	-
Service and Equipment Area	72	3.19	518,994	3.09	1	3.85	100	.01
Structural Area	135	5.98	2,205,335	13.13	3	11.54	1,950	.18
Vehicle Area	5	.22	7,008	.04	-	-	-	-
Outside Area	31	1.37	162,603	.97	-	-	-	-
Undetermined/Unclassified	94	4.16	2,113,793	12.58	-	-	-	-
Total	**2,257**	**100.00%**	**$16,800,845**	**100.00%**	**26**	**100.00%**	**$ 1,106,921**	**100.00%**

Table No. 10(c)

BREAKDOWN OF AREA OF ORIGIN OF FIRES BY PROPERTY CLASSIFICATION, 1984

Area of Origin of Fire	Mercantile				Industrial Manufacturing Properties			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Means of Egress	4	3.25%	$ 7,050	.21%	4	4.12%	$ 2,350	.04%
Assembly, Sales Area	7	5.69	32,720	.98	-	-	-	-
Function Area	18	14.63	542,405	16.17	23	23.72	1,171,425	22.30
Storage Area	24	19.51	925,391	27.58	13	13.40	46,400	.88
Service Facilities	8	6.50	8,350	.25	14	14.43	1,339,035	25.50
Service and Equipment Area	27	21.96	672,673	20.05	15	15.47	2,170,000	41.32
Structural Area	19	15.45	43,465	1.30	14	14.43	159,993	3.05
Vehicle Area	2	1.63	21,000	.63	-	-	-	-
Outside Area	7	5.69	54,038	1.61	10	10.31	115,900	2.21
Undetermined/Unclassified	7	5.69	1,047,628	31.22	4	4.12	246,863	4.70
Total	**123**	**100.00%**	**$ 3,354,720**	**100.00%**	**97**	**100.00%**	**$ 5,251,966**	**100.00%**

Table No. 16(d)

BREAKDOWN OF AREA OF ORIGIN OF FIRES BY PROPERTY CLASSIFICATION, 1984

Area of Origin of Fire	Industrial Storage Properties				Special Property — Transportation Equipment			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Means of Egress	2	.91%	$ 27,898	.92%	12	.30%	$ 61,725	1.21%
Assembly, Sales Area	-	-	-	-	14	.35	124,900	2.45
Function Area	1	.46	3,500	.12	14	.35	333,781	6.54
Storage Area	143	65.29	2,130,221	69.99	27	.68	45,400	.89
Service Facilities	8	3.65	42,937	1.41	2	.05	1,100	.02
Service and Equipment Area	3	1.37	13,000	.43	1	.03	11,000	.22
Structural Area	19	8.68	390,439	12.83	21	.53	94,900	1.86
Vehicle Area	16	7.31	403,296	13.25	985	24.95	2,680,684	52.56
Outside Area	22	10.05	23,010	.76	2,849	72.15	1,539,927	30.19
Undetermined/Unclassified	5	2.28	8,808	.29	24	.61	207,133	4.06
Total	**219**	**100.00%**	**$ 3,043,109**	**100.00%**	**3,949**	**100.00%**	**$ 5,100,550**	**100.00%**

Table No. 16(e)

BREAKDOWN OF AREA OF ORIGIN OF FIRES BY PROPERTY CLASSIFICATION, 1984

Area of Origin of Fire	Miscellaneous Properties				Totals of All Property Classifications			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Means of Egress	-	- %	$ -	- %	139	1.93%	$ 1,027,577	2.27%
Assembly, Sales Area	11	3.20	400	.01	378	5.26	6,688,363	14.79
Function Area	4	1.16	34,511	.91	1,238	17.23	9,450,881	20.90
Storage Area	103	29.94	1,768,208	46.54	466	6.49	6,502,886	14.37
Service Facilities	2	.58	19,736	.52	319	4.44	2,607,928	5.76
Service and Equipment Area	12	3.49	749,800	19.73	143	1.99	5,977,579	13.21
Structural Area	16	4.65	624,376	16.43	236	3.28	3,557,658	7.86
Vehicle Area	4	1.16	5,650	.15	1,012	14.08	3,117,638	6.89
Outside Area	180	52.33	504,307	13.27	3,100	43.16	2,400,085	5.30
Undetermined/Unclassified	12	3.49	92,875	2.44	154	2.14	3,911,796	8.65
Total	**344**	**100.00%**	**$ 3,799,863**	**100.00%**	**7,185**	**100.00%**	**$45,242,391**	**100.00%**

Table No. 11

BREAKDOWN OF ACT OR OMISSION OF FIRES BY PROPERTY CLASSIFICATION, 1984

Act or Omission	Assembly				Institutional			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	46	41.07%	$ 2,748,190	40.61%	5	8.62%	$ 20	.13%
Misuse of Source of Ignition	6	5.36	230	-	28	48.28	3,940	24.97
Misuse of Material Ignited	5	4.46	1,450	.02	1	1.72	100	.63
Mechanical, Electrical Failure, Malfunction	24	21.43	296,408	4.38	9	15.52	7,000	44.37
Construction, Design or Installation Deficiency	3	2.68	12,150	.18	-	-	-	-
Misuse of Equipment	-	-	-	-	1	1.72	400	2.54
Human Failing	7	6.25	8,894	.13	9	15.52	665	4.22
Vehicle Accident	-	-	-	-	-	-	-	-
Unclassified	1	.89	-	-	-	-	-	-
Undetermined/ Not Applicable	20	17.86	3,701,320	54.68	5	8.62	3,650	23.14
Total	**112**	**100.00%**	**$ 6,768,642**	**100.00%**	**58**	**100.00%**	**$ 15,775**	**100.00%**

Table No. 11(a)

BREAKDOWN OF ACT OR OMISSION OF FIRES BY PROPERTY CLASSIFICATION, 1984

Act or Omission	Residential				Business and Personal Services			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	176	7.80%	$ 1,694,945	10.09%	8	30.77%	$ 920,896	83.20%
Misuse of Source of Ignition	418	18.52	2,485,786	14.80	5	19.23	4,975	.45
Misuse of Material Ignited	103	4.56	516,325	3.07	2	7.69	2,100	.19
Mechanical, Electrical Failure, Malfunction	474	21.00	2,564,465	15.26	9	34.61	177,900	16.07
Construction, Design or Installation Deficiency	87	3.85	1,627,533	9.69	-	-	-	-
Misuse of Equipment	36	1.60	204,719	1.22	-	-	-	-
Human Failing	628	27.82	1,941,332	11.55	1	3.85	1,000	.09
Vehicle Accident	-	-	-	-	-	-	-	-
Unclassified	76	3.37	250,986	1.49	-	-	-	-
Undetermined/ Not Applicable	259	11.48	5,514,754	32.83	1	3.85	50	-
Total	**2,257**	**100.00%**	**$16,800,845**	**100.00%**	**26**	**100.00%**	**$ 1,106,921**	**100.00%**

Table No. 11(b)

BREAKDOWN OF ACT OR OMISSION OF FIRES BY PROPERTY CLASSIFICATION,

1984

Act or Omission	Mercantile				Industrial Manufacturing Properties			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	27	21.95%	$ 1,298,477	38.71%	8	8.25%	$ 465,450	8.86%
Misuse of Source of Ignition	10	8.13	23,919	.71	19	19.59	133,460	2.54
Misuse of Material Ignited	8	6.50	28,281	.84	4	4.12	14,800	.28
Mechanical, Electrical Failure, Malfunction	36	29.27	465,508	13.88	34	35.05	942,975	17.95
Construction, Design or Installation Deficiency	4	3.25	8,412	.25	2	2.06	593	.01
Misuse of Equipment	-	-	-	-	2	2.06	125	-
Human Failing	6	4.88	18,920	.56	4	4.12	1,400	.03
Vehicle Accident	3	2.44	9,000	.27	-	-	-	-
Unclassified	6	4.88	8,422	.25	2	2.06	12,240	.23
Undetermined/ Not Applicable	23	18.70	1,493,781	44.53	22	22.69	3,680,923	70.10
Total	**123**	**100.00%**	**$ 3,354,720**	**100.00%**	**97**	**100.00%**	**$ 5,251,966**	**100.00%**

Table No. 11(c)

BREAKDOWN OF ACT OR OMISSION OF FIRES BY PROPERTY CLASSIFICATION,

1984

Act or Omission	Industrial Storage Properties				Special Property — Transportation Equipment			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	74	33.78%	$ 307,131	10.09%	1,891	47.89%	$ 1,327,009	26.01%
Misuse of Source of Ignition	21	9.59	51,615	1.70	543	13.75	526,209	10.32
Misuse of Material Ignited	13	5.94	130,150	4.28	30	.76	17,475	.34
Mechanical, Electrical Failure, Malfunction	27	12.33	407,500	13.39	353	8.94	930,383	18.24
Construction, Design or Installation Deficiency	13	5.94	78,944	2.59	2	.05	51,200	1.00
Misuse of Equipment	5	2.28	22,542	.74	6	.15	22,200	.44
Human Failing	8	3.65	55,495	1.82	55	1.39	54,858	1.08
Vehicle Accident	-	-	-	-	26	.66	153,100	3.00
Unclassified	4	1.83	6,250	.21	166	4.20	131,062	2.57
Undetermined/ Not Applicable	54	24.66	1,983,482	65.18	877	22.21	1,887,054	37.00
Total	**219**	**100.00%**	**$ 3,043,109**	**100.00%**	**3,949**	**100.00%**	**$ 5,100,550**	**100.00%**

Table No. 11(d)

BREAKDOWN OF ACT OR OMISSION OF FIRES BY PROPERTY CLASSIFICATION, 1984

Act or Omission	Miscellaneous Properties				Totals of All Property Classifications			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Incendiary or Set Fire	47	13.66%	$ 26,925	.71%	2,282	31.76%	$ 8,789,043	19.43%
Misuse of Source of Ignition	65	18.90	169,301	4.46	1,115	15.52	3,399,435	7.51
Misuse of Material Ignited	8	2.33	29,715	.78	174	2.42	740,396	1.64
Mechanical, Electrical Failure, Malfunction	70	20.35	1,605,690	42.26	1,036	14.42	7,397,829	16.35
Construction, Design or Installation Deficiency	7	2.03	50,244	1.32	118	1.64	1,829,076	4.04
Misuse of Equipment	4	1.16	159,713	4.20	54	.75	409,699	.91
Human Failing	16	4.65	13,707	.36	734	10.22	2,096,271	4.63
Vehicle Accident	3	.87	2,000	.05	32	.45	164,100	.36
Unclassified	44	12.79	151,226	3.98	299	4.16	560,186	1.24
Undetermined/ Not Applicable	80	23.26	1,591,342	41.88	1,341	18.66	19,856,356	43.89
Total	**344**	**100.00%**	**$ 3,799,863**	**100.00%**	**7,185**	**100.00%**	**$45,242,391**	**100.00%**

Table No. 12

BREAKDOWN OF SOURCE OF HEAT OF IGNITION BY PROPERTY CLASSIFICATION, 1984

Source of Heat of Ignition	Assembly No.	Assembly Percent	Assembly Amount	Assembly Percent	Institutional No.	Institutional Percent	Institutional Amount	Institutional Percent
Electrical Distribution Equipment — Aluminum	1	.89%	$ 407	.01%	-	- %	$ -	- %
Heating Equipment	13	11.61	195,718	2.89	1	1.72	-	-
Cooking Equipment	19	16.96	38,489	.57	8	13.79	540	3.42
Smoker's Material	4	3.57	200	-	26	44.83	3,905	24.75
Electrical Distribution Equipment — Copper	7	6.25	10,568	.30	2	3.45	6,500	41.21
Electrical Appliance and Equipment	3	2.68	825	.01	4	6.90	25	.16
Other Appliance and Equipment	3	2.68	100,100	1.48	5	8.62	1,000	6.34
Open Flame	46	41.08	2,744,120	40.54	4	6.90	55	.35
Exposure	1	.89	130,000	1.92	-	-	-	-
Miscellaneous	-	-	-	-	1	1.72	100	.63
Undetermined/Unclassified	15	13.39	3,538,215	52.28	7	12.07	3.650	23.14
Total	**112**	**100.00%**	**$ 6,768,642**	**100.00%**	**58**	**100.00%**	**$ 15,775**	**100.00%**

Table No. 12(a)

BREAKDOWN OF SOURCE OF HEAT OF IGNITION BY PROPERTY CLASSIFICATION, 1984

Source of Heat of Ignition	Residential No.	Residential Percent	Residential Amount	Residential Percent	Business and Personal Services No.	Business and Personal Services Percent	Business and Personal Services Amount	Business and Personal Services Percent
Electrical Distribution Equipment — Aluminum	-	- %	$ -	- %	-	- %	$ -	- %
Heating Equipment	478	21.18	3,341,563	19.89	4	15.38	18,550	1.68
Cooking Equipment	630	27.91	1,683,654	10.02	1	3.85	1,000	.09
Smoker's Material	264	11.70	1,526,665	9.09	3	11.54	3,025	.27
Electrical Distribution Equipment — Copper	117	5.18	1,841,703	10.96	4	15.38	8,000	.72
Electrical Appliance and Equipment	102	4.52	314,558	1.87	1	3.85	-	-
Other Appliance and Equipment	62	2.75	127,720	.76	2	7.69	150,400	13.59
Open Flame	311	13.78	2,361,418	14.06	7	26.92	909,896	82.20
Exposure	26	1.15	160,441	.95	3	11.54	16,000	1.45
Miscellaneous	69	3.06	245,509	1.46	-	-	-	-
Undetermined/Unclassified	198	8.77	5,197,614	30.94	1	3.85	50	-
Total	**2,257**	**100.00%**	**$16,800,845**	**100.00%**	**26**	**100.00%**	**$ 1,106,921**	**100.00%**

Table No. 12(b)

BREAKDOWN OF SOURCE OF HEAT OF IGNITION BY PROPERTY CLASSIFICATION, 1984

Source of Heat of Ignition	Mercantile				Industrial Manufacturing Properties			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Electrical Distribution Equipment — Aluminum	1	.81%	$ 50	- %	-	- %	$ -	- %
Heating Equipment	18	14.62	374,044	11.15	10	10.31	605,850	11.54
Cooking Equipment	3	2.44	17,105	.51	8	8.25	12,500	.24
Smoker's Material	4	3.25	3,000	.09	3	3.09	8,350	.16
Electrical Distribution Equipment — Copper	15	12.20	105,502	3.14	10	10.31	202,093	3.85
Electrical Appliance and Equipment	9	7.32	25,646	.76	3	3.09	2,150	.04
Other Appliance and Equipment	9	7.32	8,837	.26	1	1.03	1,500	.03
Open Flame	23	18.70	573,005	17.08	25	25.78	545,250	10.38
Exposure	4	3.25	6,250	.19	-	-	-	-
Miscellaneous	12	9.76	23,011	.69	13	13.40	43,600	.83
Undetermined/Unclassified	25	20.33	2,218,270	66.13	24	24.74	3,830,673	72.93
Total	**123**	**100.00%**	**$ 3,354,720**	**100.00%**	**97**	**100.00%**	**$ 5,251,966**	**100.00%**

Table No. 12(c)

BREAKDOWN OF SOURCE OF HEAT OF IGNITION BY PROPERTY CLASSIFICATION, 1984

Source of Heat of Ignition	Industrial Storage Properties				Special Property — Transportation Equipment			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Electrical Distribution Equipment — Aluminum	-	- %	$ -	- %	-	- %	$ -	- %
Heating Equipment	27	12.33	135,839	4.46	24	.61	100,121	1.96
Cooking Equipment	1	.46	1,000	.03	37	.94	40,260	.79
Smoker's Material	5	2.28	2,050	.07	53	1.34	57,208	1.12
Electrical Distribution Equipment — Copper	11	5.02	360,751	11.85	129	3.27	285,976	5.61
Electrical Appliance and Equipment	7	3.20	55,327	1.82	23	.58	40,366	.79
Other Appliance and Equipment	7	3.20	48,000	1.58	246	6.23	567,980	11.14
Open Flame	86	39.27	246,914	8.11	2,333	59.07	1,681,169	32.96
Exposure	9	4.11	10,510	.35	112	2.84	127,027	2.49
Miscellaneous	8	3.65	79,396	2.61	53	1.34	113,114	2.22
Undetermined/Unclassified	58	26.48	2,103,322	69.12	939	23.78	2,087,329	40.92
Total	**219**	**100.00%**	**$ 3,043,109**	**100.00%**	**3,949**	**100.00%**	**$ 5,100,550**	**100.00%**

Table No. 12(d)

BREAKDOWN OF SOURCE OF HEAT OF IGNITION BY PROPERTY CLASSIFICATION, 1984

Source of Heat of Ignition	Miscellaneous Properties				Totals of All Property Classifications			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Electrical Distribution Equipment — Aluminum	-	- %	$ -	- %	2	.03%	$ 457	- %
Heating Equipment	17	4.94	145,808	3.84	592	8.24	4,917,493	10.87
Cooking Equipment	-	-	-	-	707	9.84	1,794,548	3.97
Smoker's Material	2	.58	50	-	364	5.07	1,604,453	3.55
Electrical Distribution Equipment — Copper	47	13.66	1,163,878	30.63	342	4.76	3,994,971	8.83
Electrical Appliance and Equipment	18	5.23	352,307	9.27	170	2.37	791,204	1.75
Other Appliance and Equipment	31	9.01	60,916	1.60	366	5.09	1,066,453	2.36
Open Flame	99	28.79	178,042	4.69	2,934	40.83	9,239,869	20.41
Exposure	32	9.30	57,695	1.52	187	2.60	507,923	1.12
Miscellaneous	25	7.27	307,581	8.09	181	2.52	812,311	1.80
Undetermined/Unclassified	73	21.22	1,533,586	40.36	1,340	18.65	20,512,709	45.34
Total	**344**	**100.00%**	**$ 3,799,863**	**100.00%**	**7,185**	**100.00%**	**$45,242,391**	**100.00%**

Table No. 13

BREAKDOWN OF FUEL OR ENERGY BY PROPERTY CLASSIFICATION,

1984

Fuel or Energy	Assembly				Institutional			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Coal, Wood	10	8.93%	$ 1,801,455	26.62%	2	3.45%	$ 610	3.87%
Fuel Oil	-	-	-	-	-	-	-	-
Gasoline	1	.89	300	-	-	-	-	-
Natural Gas	13	11.61	9,648	.14	-	-	-	-
Propane	4	3.57	123,500	1.82	1	1.72	25	.16
Smoker's Material	4	3.57	200	-	26	44.83	3,905	24.75
Electricity	26	23.21	317,315	4.69	16	27.59	7,465	47.33
Lightning	-	-	-	-	-	-	-	-
Unclassified	4	3.57	29,000	.43	3	5.17	100	.63
Undetermined/ Not Applicable	50	44.65	4,487,224	66.30	10	17.24	3,670	23.26
Total	**112**	**100.00%**	**$ 6,768,642**	**100.00%**	**58**	**100.00%**	**$ 15,775**	**100.00%**

Table No. 13(a)

BREAKDOWN OF FUEL OR ENERGY BY PROPERTY CLASSIFICATION,

1984

Fuel or Energy	Residential				Business and Personal Services			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Coal, Wood	447	19.81%	$ 2,637,095	15.70%	1	3.85%	$ 1,250	.11%
Fuel Oil	24	1.06	102,090	.61	1	3.85	700	.06
Gasoline	9	.40	360,974	2.15	-	-	-	-
Natural Gas	34	1.51	322,370	1.92	2	7.69	500	.05
Propane	70	3.10	573,491	3.41	-	-	-	-
Smoker's Material	264	11.70	1,504,185	8.95	3	11.54	3,025	.27
Electricity	853	37.78	4,208,779	25.06	10	38.45	180,500	16.31
Lightning	56	2.48	192,154	1.14	-	-	-	-
Unclassified	71	3.15	239,040	1.42	-	-	-	-
Undetermined/ Not Applicable	429	19.01	6,660,667	39.64	9	34.62	920,946	83.20
Total	**2,257**	**100.00%**	**$16,800,845**	**100.00%**	**26**	**100.00%**	**$ 1,106,921**	**100.00%**

Table No. 13(b)

BREAKDOWN OF FUEL OR ENERGY BY PROPERTY CLASSIFICATION,

1984

Fuel or Energy	Mercantile				Industrial Manufacturing Properties			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Coal, Wood	6	4.88%	$ 13,513	.40%	10	10.31%	$ 105,025	2.00%
Fuel Oil	7	5.69	13,025	.39	1	1.03	-	-
Gasoline	5	4.07	42,563	1.27	-	-	-	-
Natural Gas	6	4.88	250,280	7.46	8	8.25	735,025	14.00
Propane	8	6.50	118,225	3.52	8	8.25	85,500	1.63
Smoker's Material	4	3.25	3,000	.09	3	3.09	8,350	.16
Electricity	35	28.45	119,716	3.57	21	21.65	211,993	4.04
Lightning	5	4.07	5,298	.16	-	-	-	-
Unclassified	2	1.63	82,955	2.47	9	9.28	207,598	3.95
Undetermined/ Not Applicable	45	36.58	2,706,145	80.67	37	38.14	3,898,475	74.22
Total	**123**	**100.00%**	**$ 3,354,720**	**100.00%**	**97**	**100.00%**	**$ 5,251,966**	**100.00%**

Table No. 13(c)

BREAKDOWN OF FUEL OR ENERGY BY PROPERTY CLASSIFICATION,

1984

Fuel or Energy	Industrial Storage Properties No.	Percent	Amount	Percent	Special Property — Transportation Equipment No.	Percent	Amount	Percent
Coal, Wood	43	19.63%	$ 236,786	7.78%	301	7.62%	$ 147,834	2.90%
Fuel Oil	4	1.83	9,071	.30	95	2.41	5,300	.10
Gasoline	7	3.20	31,500	1.04	185	4.68	684,796	13.43
Natural Gas	-	-	-	-	2	.05	1,000	.02
Propane	4	1.83	44,356	1.46	61	1.54	64,339	1.26
Smoker's Material	5	2.28	2,050	.07	58	1.47	61,906	1.21
Electricity	20	9.13	384,878	12.65	159	4.03	329,435	6.46
Lightning	1	.46	300	.01	8	.20	485	.01
Unclassified	6	2.74	52,750	1.73	26	.66	82,039	1.61
Undetermined/ Not Applicable	129	58.90	2,281,418	74.96	3,054	77.34	3,723,416	73.00
Total	**219**	**100.00%**	**$ 3,043,109**	**100.00%**	**3,949**	**100.00%**	**$ 5,100,550**	**100.00%**

Table No. 13(d)

BREAKDOWN OF FUEL OR ENERGY BY PROPERTY CLASSIFICATION,

1984

Fuel or Energy	Miscellaneous Properties No.	Percent	Amount	Percent	Totals of All Property Classifications No.	Percent	Amount	Percent
Coal, Wood	53	15.41%	$ 85,352	2.25%	873	12.15%	$ 5,028,920	11.12%
Fuel Oil	2	.58	300	.01	134	1.86	130,486	.29
Gasoline	34	9.88	275,218	7.24	241	3.35	1,395,351	3.08
Natural Gas	-	-	-	-	65	.90	1,318,823	2.92
Propane	9	2.62	114,547	3.01	165	2.30	1,123,983	2.48
Smoker's Material	2	.58	50	-	369	5.14	1,586,671	3.51
Electricity	69	20.06	1,376,258	36.22	1,209	16.83	7,136,339	15.77
Lightning	14	4.07	75,527	1.99	84	1.17	273,764	.61
Unclassified	5	1.45	5,654	.15	126	1.75	699,136	1.55
Undetermined/ Not Applicable	156	45.35	1,866,957	49.13	3,919	54.55	26,548,918	58.67
Total	**344**	**100.00%**	**$ 3,799,863**	**100.00%**	**7,185**	**100.00%**	**$45,242,391**	**100.00%**

Table No. 14

BREAKDOWN OF MATERIAL FIRST IGNITED BY PROPERTY CLASSIFICATION,

1984

Material First Ignited	Assembly				Institutional			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Structural Component, Finish Material	8	7.14%	$ 196,250	2.90%	2	3.45%	$ 1,000	6.34%
Furniture, Furnishing	2	1.79	300	-	15	25.86	3,060	19.40
Clothing, Textile	6	5.36	7,196	.11	6	10.34	505	3.20
Wood, Paper Product	19	16.96	114,055	1.69	5	8.62	20	.13
Flammable Liquid	20	17.86	109,739	1.62	4	6.90	-	-
Flammable Gas	2	1.79	2,518	.04	-	-	-	-
Chemical	1	.89	1,000	.01	1	1.72	40	.25
Agricultural, Forest Product	2	1.79	200	-	1	1.72	-	-
Miscellaneous	27	24.10	451,301	6.67	24	41.39	11,150	70.68
Undetermined/ Unclassified	25	22.32	5,886,083	86.96	-	-	-	-
Total	**112**	**100.00%**	**$ 6,768,642**	**100.00%**	**58**	**100.00%**	**$ 15,775**	**100.00%**

Table No. 14(a)

BREAKDOWN OF MATERIAL FIRST IGNITED BY PROPERTY CLASSIFICATION,

1984

Material First Ignited	Residential				Business and Personal Services			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Structural Component, Finish Material	322	14.27%	$ 2,528,991	15.06%	3	11.54%	$ 18,750	1.69%
Furniture, Furnishing	433	19.18	2,321,352	13.82	1	3.85	3,000	.27
Clothing, Textile	89	3.94	578,639	3.44	1	3.85	700	.06
Wood, Paper Product	185	8.20	1,306,005	7.77	3	11.54	386,551	34.92
Flammable Liquid	530	23.48	1,942,079	11.56	2	7.69	22,000	1.99
Flammable Gas	13	.58	178,243	1.06	-	-	-	-
Chemical	41	1.82	77,478	.46	-	-	-	-
Agricultural, Forest Product	25	1.11	40,720	.24	1	3.85	400	.04
Miscellaneous	363	16.08	1,567,587	9.33	9	34.61	150,425	13.59
Undetermined/ Unclassified	256	11.34	6,259,751	37.26	6	23.07	525,095	47.44
Total	**2,257**	**100.00%**	**$16,800,845**	**100.00%**	**26**	**100.00%**	**$ 1,106,921**	**100.00%**

Table No. 14(b)

BREAKDOWN OF MATERIAL FIRST IGNITED BY PROPERTY CLASSIFICATION,

1984

Material First Ignited	Mercantile				Industrial Manufacturing Properties			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Structural Component, Finish Material	21	17.07%	$ 75,559	2.25%	17	17.53%	$ 118,568	2.26%
Furniture, Furnishing	1	.81	1,000	.03	2	2.06	11,940	.23
Clothing, Textile	3	2.44	650	.02	1	1.03	1,500	.03
Wood, Paper Product	14	11.38	288,001	8.58	22	22.69	297,648	5.67
Flammable Liquid	16	13.01	321,519	9.59	11	11.34	620,900	11.82
Flammable Gas	3	2.44	315,050	9.39	2	2.06	60,400	1.15
Chemical	2	1.63	50	-	4	4.12	8,010	.15
Agricultural, Forest Product	5	4.07	450	.01	8	8.25	6,450	.12
Miscellaneous	26	21.14	110,321	3.29	14	14.43	157,175	2.99
Undetermined/ Unclassified	32	26.01	2,242,120	66.84	16	16.49	3,969,375	75.58
Total	**123**	**100.00%**	**$ 3,354,720**	**100.00%**	**97**	**100.00%**	**$ 5,251,966**	**100.00%**

Table No. 14(c)

BREAKDOWN OF MATERIAL FIRST IGNITED BY PROPERTY CLASSIFICATION,

1984

Material First Ignited	Industrial Storage Properties				Special Property — Transportation Equipment			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Structural Component, Finish Material	35	15.98%	$ 206,327	6.78%	19	.48%	$ 17,029	.33%
Furniture, Furnishing	9	4.11	740	.02	47	1.19	47,684	.93
Clothing, Textile	2	.91	14,356	.47	24	.61	80,154	1.57
Wood, Paper Product	34	15.53	126,197	4.15	145	3.67	253,843	4.98
Flammable Liquid	11	5.02	51,511	1.69	144	3.65	242,811	4.76
Flammable Gas	4	1.83	31,182	1.02	29	.73	6,299	.12
Chemical	2	.91	1,050	.03	16	.41	510	.01
Agricultural, Forest Product	12	5.48	62,950	2.07	1,304	33.02	1,127,678	22.11
Miscellaneous	36	16.44	428,468	14.08	1,569	39.73	1,147,208	22.49
Undetermined/ Unclassified	74	33.79	2,120,328	69.69	652	16.51	2,177,334	42.70
Total	**219**	**100.00%**	**$ 3,043,109**	**100.00%**	**3,949**	**100.00%**	**$ 5,100,550**	**100.00%**

Table No. 14(d)

BREAKDOWN OF MATERIAL FIRST IGNITED BY PROPERTY CLASSIFICATION, 1984

Material First Ignited	Miscellaneous Properties				Total of All Property Classifications			
	No.	Percent	Amount	Percent	No.	Percent	Amount	Percent
Structural Component, Finish Material	33	9.59%	$ 825,689	21.73%	460	6.40%	$ 3,988,163	8.82%
Furniture, Furnishing	1	.29	7,800	.21	511	7.11	2,396,876	5.30
Clothing, Textile	2	.58	1,000	.03	134	1.86	684,700	1.51
Wood, Paper Product	18	5.23	8,600	.23	445	6.19	2,780,920	6.15
Flammable Liquid	2	.58	800	.02	740	10.30	3,311,359	7.32
Flammable Gas	2	.58	5,000	.13	55	.77	598,692	1.32
Chemical		-	-	-	67	.93	88,138	.19
Agricultural, Forest Product	159	46.23	947,123	24.93	1,517	21.11	2,185,971	4.83
Miscellaneous	58	16.86	53,254	1.40	2,126	29.60	4,076,889	9.01
Undetermined/ Unclassified	69	20.06	1,950,597	51.32	1,130	15.73	25,130,683	55.55
Total	**344**	**100.00%**	**$ 3,799,863**	**100.00%**	**7,185**	**100.00%**	**$45,242,391**	**100.00%**

Table No. 15

NUMBER OF FIRES AND AMOUNT OF FIRE LOSS BY COMMUNITY OR AREA, 1984

Municipal Code	Name	Number of Fires	Amount of Loss
001	R.M. of Albert	1	$ 5,500
002	Town of Altona	14	4,258
003	Village of Arborg	7	14,635
004	R.M. of Archie	10	19,400
005	R.M. of Argyle	8	152,213
006	R.M. of Arthur	6	24,345
010	Town of Beausejour	15	6,700
011	Village of Benito	4	23,131
012	R.M. of Bifrost	19	11,804
013	Village of Binscarth	3	141,700
014	R.M. of Birtle	17	22,368
015	Town of Birtle	7	16,000
016	R.M. of Blanshard	8	8,442
017	Town of Boissevain	4	8,000
018	R.M. of Boulton	7	14.671
019	Village of Bowsman	3	-
020	City of Brandon	214	254,673
021	R.M. of Brenda	4	58,655
022	R.M. of Brokenhead	34	177,030
023	Government Services	6	150
027	Town of Carberry	7	45,563
028	Town of Carman	6	2,950
029	R.M. of Cartier	14	21,900
030	Village of Cartwright	2	900
032	R.M. of Clanwilliam	8	6,072
033	R.M. of Coldwell	15	253,695
034	R.M. of Cornwallis	22	73,885
038	R.M. of Daly	2	-
039	R.M. of Dauphin	26	311,196
040	Town of Dauphin	51	2,940,841
041	Town of Deloraine	2	4,615
042	R.M. of De Salaberry	13	73,171
043	R.M. of Dufferin	22	396,102
044	Village of Dunnottar	3	8,000
048	R.M. Of East St. Paul	30	348,144
049	R.M. of Edward	3	100
050	Village of Elkhorn	1	2,900
051	R.M. of Ellice	8	520,740
052	R.M. of Elton	7	43,844
053	Town of Emerson	1	300
054	Village of Erickson	1	-
055	R.M. of Eriksdale	6	81,870
056	R.M. of Ethelbert	5	1,600
057	Village of Ethelbert	2	5,150
060	City of Flin Flon	68	230,421
063	R.M. of Franklin	30	38,465
067	R.M. of Gilbert Plains	12	100,644
068	Village of Gilbert Plains	5	27,822
069	R.M. of Gimli	12	94,804
070	Town of Gimli	3	201,050
071	Town of Gladstone	1	345
072	Village of Glenboro	4	11,500

Table No. 15 (continued)

NUMBER OF FIRES AND AMOUNT OF FIRE LOSS BY COMMUNITY OR AREA, 1984

Municipal Code	Name	Number of Fires	Amount of Loss
073	R.M. of Glenella	7	$ 7,809
074	R.M. of Glenwood	12	18,116
077	Village of Grand Marais	2	1,550
079	R.M. of Grey	15	37,145
082	R.M. of Hamiota	4	258
083	Village of Hamiota	4	400
084	R.M. of Hanover	86	980,881
085	R.M. of Harrison	3	-
087	R.M. of Hillsburg	5	52,584
090	Town of Killarney	10	2,300
092	Village of la Riviere	1	2,799
093	R.M. of la Broquerie	13	81,825
094	R.M. of Lac du Bonnet	32	144,023
095	Village of Lac du Bonnet	7	7,824
096	R.M. of Lakeview	2	4,500
097	R.M. of Langford	8	33,476
098	R.M. of Lansdowne	9	158,690
099	R.M. of Lawrence	11	35,990
100	R.M. of Lorne	11	54,384
101	R.M. of Louise	2	23,000
103	Village of Letellier	1	300
104	R.M. of MacDonald	27	235,334
105	Village of MacGregor	1	1,000
106	Village of Manitou	1	303
107	R.M. of McCreary	6	48,093
108	Village of McCreary	2	15,431
111	Town of Melita	4	62,220
112	R.M. of Miniota	14	19,257
113	R.M. of Minitonas	10	249,648
114	Village of Minitonas	2	200
115	Town of Minnedosa	10	41,227
116	R.M. of Minto	4	17,200
117	R.M. of Montcalm	9	8,711
118	Town of Morden	17	137,261
119	R.M. of Morris	18	182,929
120	Town of Morris	7	4,315
121	R.M. of Morton	11	44,550
122	R.M. of Mossey River	13	44,622
124	Village of Napinka	1	75,139
125	Town of Neepawa	5	12,200
126	Village of Niverville	4	5,492
127	R.M. of North Cypress	16	208,824
128	Village of Ninette	1	-
129	R.M. of North Norfolk	13	77,180
133	Town of Oak Lake	1	125,000
134	R.M. of Oakland	10	64,500
135	R.M. of Ochre River	10	127,940
136	R.M. of Odanah	10	26,908
137	Village of Onanole	2	-
140	R.M. of Pembina	2	-

Table No. 15 (continued)

NUMBER OF FIRES AND AMOUNT OF FIRE LOSS BY COMMUNITY OR AREA, 1984

Municipal Code	Name	Number of Fires	Amount of Loss
142	R.M. of Pipestone	17	$ 56,534
143	Village of Plum Coulee	6	1,345
144	R.M. of Portage la Prairie	21	332,927
145	City of Portage la Prairie	32	1,466,707
148	Village of Rathwell	1	18,000
149	Town of Rapid City	2	-
150	R.M. of Rhineland	20	46,441
151	R.M. of Ritchot	18	357,386
152	Town of Rivers	1	27,805
153	R.M. of Riverside	2	3,675
154	Village of Riverton	7	3,032
155	R.M. of Roblin	12	61,958
156	Town of Roblin	4	139,688
157	R.M. of Rockwood	31	177,824
158	R.M. of Roland	6	21,829
159	R.M. of Rosedale	17	26,665
160	R.M. of Rossburn	7	29,580
161	Village of Rossburn	2	1,000
162	R.M. of Rosser	9	257,950
163	R.M. of Russell	3	-
164	Town of Russell	3	3,086
165	Village of Richer	3	13,714
167	R.M. of St. Andrews	71	1,884,954
168	R.M. of Ste. Anne	13	79,332
169	Village of Ste. Anne	5	5,231
171	Village of St. Claude	1	-
172	R.M. of St. Clements	25	391,513
173	R.M. of St. Francois Xavier	5	20,000
174	Village of St. Malo	7	275,410
175	R.M. of St. Laurent	12	134,300
176	Village of St. Lazare	4	34,738
177	Village of St. Pierre Jolys	2	700
178	R.M. of Ste. Rose	9	31,654
179	Village of Ste. Rose du Lac	5	9,080
180	U.V.D. Sprague	1	2,200
181	Village of Sandy Lake	2	20,000
182	R.M. of Saskatchewan	3	39,170
183	Town of Selkirk	64	233,679
184	R.M. of Shellmouth	18	49,244
185	R.M. of Shell River	8	28,955
186	R.M. of Shoal Lake	11	33,600
187	Village of Shoal Lake	4	13,633
188	R.M. of Sifton	3	50,000
189	R.M. of Siglunes	13	249,327
190	R.M. of Silver Creek	6	6,173
191	Village of Somerset	3	116,000
192	Town of Souris	4	8,726
193	R.M. of South Cypress	12	48,796
194	R.M. of South Norfolk	1	83,050
195	R.M. of Springfield	132	210,453

Table No. 15 (continued)

NUMBER OF FIRES AND AMOUNT OF FIRE LOSS BY COMMUNITY OR AREA, 1984

Municipal Code	Name	Number of Fires	Amount of Loss
196	R.M. of Stanley	38	$ 757,953
197	Town of Steinbach	26	613,511
198	Town of Stonewall	21	171,534
199	R.M. of Strathclair	9	2,000
200	R.M. of Strathcona	12	38,012
201	R.M. of Swan River	28	602,194
202	Town of Swan River	20	23,403
203	Village of Stony Mountain	2	1,750
204	Village of Sperling	1	259
205	R.M. of Tache	20	141,423
206	Village of Teulon	4	67,700
207	Town of The Pas	87	104,586
208	R.M. of Thompson	3	25,900
209	City of Thompson	134	369,218
211	Village of Treherne	1	14,858
212	R.M. of Turtle Mountain	25	25,399
216	R.M. of Victoria	1	20,500
217	R.M. of Victoria Beach	7	430
218	Town of Virden	5	11,473
221	R.M. of Wallace	23	40,620
223	Village of Wawanesa	4	50,087
224	R.M. of Westbourne	3	2,000
226	R.M. of West St. Paul	18	44,175
227	R.M. of Whitehead	8	4,182
228	R.M. of Whitemouth	26	58,058
229	R.M. of Whitewater	6	103,551
230	R.M. of Winchester	3	-
231	Town of Winkler	13	638,050
232	City of Winnipeg	4,278	13,418,431
233	Town of Winnipeg Beach	5	2,158
234	Village of Winnipegosis	7	24,469
235	R.M. of Woodlands	12	128,529
236	R.M. of Woodworth	7	66,297
238	L.G.D. of Alexander	26	203,941
240	L.G.D. of Alonsa	8	213,979
242	L.G.D. of Armstrong	18	200,582
244	L.G.D. of Churchill	7	11,800
246	L.G.D. of Consol	13	121,077
248	L.G.D. of Fisher	25	20,951
250	L.G.D. of Gillam	5	8,936
252	L.G.D. of Grahamdale	12	15,774
254	L.G.D. of Grand Rapids	2	13,800
255	Bissett	1	-
256	Town of Leaf Rapids	8	23,500
258	L.G.D. of Lynn Lake	3	6,000
259	Stevenson Island	1	243,500
260	L.G.D. of Mountain	12	248,135
262	L.G.D. of Mystery Lake	1	200
264	L.G.D. of Park	9	19,150
266	L.G.D. of Pinawa	13	48,707

Table No. 15 (continued)

NUMBER OF FIRES AND AMOUNT OF FIRE LOSS BY COMMUNITY OR AREA, 1984

Municipal Code	Name	Number of Fires	Amount of Loss
268	L.G.D. of Piney	17	$ 430,595
269	Dallas/Red Rose	1	-
270	L.G.D. of Reynolds	16	2,233,465
271	Cross Lake	4	500
272	Town of Snow Lake	7	24,430
273	Dakota Ojibway Tribal Council	8	800
274	L.G.D. of Stuartburn	23	28,201
275	Berens River	2	65,000
277	Waterhen	2	4,000
278	Cranberry Portage	3	6,490
279	Thicket Portage	2	-
281	Brochet	1	-
282	Crane River	2	-
284	Ilford	2	5,700
290	Sherridon	1	-
291	Duck Bay	7	98,000
294	Camperville	2	40,970
295	Manigotagan	2	11,000
296	Moose Lake	2	15,250
297	Norway House	4	100
298	South Indian Lake	6	21,100
299	Wabowden	4	400
300	Miscellaneous	117	5,880,982
305	Homebrook	1	-
308	Pine Dock	1	-
	Total	**7,185**	**$45,242,391**

Table No. 16

1984 FIRES CAUSING THREE OR MORE FATALITIES

Date	Location	Occupancy	Cause	Fatality Breakdown Men	Women	Children	Total
84 08 29	Norway House Townsite	Dwelling	Undetermined - accidental	1	2	3	6
84 12 08	Lake Manitoba Indian Reserve	Dwelling	Undetermined	1	-	3	4

Table No. 17

1984 FIRE LOSSES EXCEEDING $500,000

Date	Location	Occupancy	Reported Cause	Amount of Loss
84 02 09	Split Lake Indian Reserve	Mercantile	Undetermined - accidental	$ 990,000*
84 03 13	Gods Lake Narrows Indian Reserve	School	Undetermined	3,000,000*
84 03 19	Dauphin	School	Incendiary	1,800,000*
84 03 28	Winnipeg	Mercantile	Incendiary	500,000*
84 06 08	Winnipeg	Dwelling	Accidental	515,892*
84 06 22	Winnipeg	Office Building	Incendiary	503,045*
84 07 20	Winkler	Industrial Manufacturing	Accidental	600,000
84 07 20	R.M. of Hanover	Barn	Accidental	685,000*
84 08 02	L.G.D. of Reynolds	Peat Moss Plant	Undetermined - accidental	2,000,000*
84 09 05	R.M. of Ellice	Barn	Undetermined	515,000*
84 09 08	Clear Lake	Restaurant/Motel	Accidental	521,000*
84 09 30	Portage la Prairie	Grain Elevator	Undetermined	1,100,000*
84 10 04	R.M. of St. Andrews	Fish Plant	Undetermined	1,000,000*

*Estimated loss

SECTION II

INVESTIGATION SECTION

Table No. 18

INVESTIGATIONS CONDUCTED UNDER THE FIRES PREVENTION ACT, 1984

Area	Number of Investigations Conducted
Fire Commissioner's Staff[1]	452
Urban Police Forces	226
R.C.M.P.	245
	923
Metro Winnipeg	520
Urban Areas	60
Rural Areas	343
	923

[1]In co-operation with local authorities.

Table No. 19

FINDINGS OF INVESTIGATIONS CONDUCTED UNDER THE FIRES PREVENTION ACT, 1984

Cause of Fire	Number
Accidental	494
Incendiary	153
Vandalism	53
Undetermined —Accidental	184
—Suspicious	35
Still Under Investigation	4
Total	**923**

Table No. 20

DISPOSITION OF INVESTIGATIONS RELATED TO INCENDIARY FIRES, 1984

Disposition	Number
Insufficient Evidence for Charges to be Laid at End of 1984	32
Charges — Adults	58
— Juveniles	28
Convictions — Adults	29
— Juveniles	17
Charges Stayed or Withdrawn	18
Juveniles Warned	71
Adjourned "Sine Die"	-
Acquittals	-
Charges Dismissed	3
Absolute Discharge	5
Conditional Discharge	4
Cleared Otherwise	-
Under Investigation	-
Suicide by Arson	3
Attempted Suicide by Arson	-
Murder by Arson	1
Detained for Psychiatric Examination	-
Death by Incendiarism	-
Convicted on Other Offenses Related to Fire Incidents	14
No Charges Laid Due to Mental Illness	2
Warrents Issued	3
Court Cases Pending at End of 1984	32*

*Five court cases pending prior to 1984.

Table No. 21

SEMINARS CONDUCTED BY THE FIRE INVESTIGATION SECTION[1], 1984

Course	Number Held	Attendance
Fire Cause Determination and Arson Detection Seminar	7	180

[1]These courses were held to assist local police and fire services personnel in the identification of cause, origin and circumstances surrounding fire.

SECTION III

FIRE PREVENTION AND FIELD SERVICES SECTION

Table No. 22

INSPECTIONS CONDUCTED BY STAFF UNDER THE FIRES PREVENTION ACT[1]

1984

Group	Division	Occupancy Code	Occupancy	Inspections Conducted
			ASSEMBLY OCCUPANCIES:	
A	2	09	Day Care Centres	103
		16	Lodge Rooms	1
		GROUP TOTAL		**104**
			INSTITUTIONAL OCCUPANCIES:	
B	2	01	Children's Custodial Homes	1
		03	Homes for the Aged	17
		04	Hospitals	10
		07	Psychiatric Hospital (without detention quarters)	1
		99	Miscellaneous	21
		GROUP TOTAL		**50**
			RESIDENTIAL OCCUPANCIES:	
C	1	01	Apartments	18
		02	Boarding Houses	1
		06	Dormitories/Staff Residences	2
		07	Hotels	3
		08	Houses	6
		09	Lodging Houses	1
		99	Miscellaneous	13
		GROUP TOTAL		**44**
Total				**198**

[1]The number of inspections shown were conducted by office staff utilizing the Municipal Fire Prevention Program.

Table No. 23

FIRES PREVENTION AND FIELD SERVICES EDUCATIONAL ACTIVITIES, 1984

Type of Activity	Number Held	Attendance
MEETINGS:		
Administrators of Institutions	2	12
Administrators and/or Maintenance Personnel	2	2
Commercial and/or Industrial	1	85
Fire Departments	76	463
Fire Service Instructors	8	15
Governmental	60	455
Hospital Boards	3	7
Mutual Aid	60	885
Nursing Homes	6	18
School and/or School Division Officials	5	25
Uniform Training Program	2	7
Special Projects	129	1,888
CONSULTATIONS:		
Administrators of Institutions	50	108
Building Inspectors	2	4
Commercial and/or Industrial	15	32
Day Care Administrators/Co-ordinators	11	27
Fire Chiefs and/or Deputies	586	940
Fire Prevention Officers	41	77
Fire Service Instructors	11	18
Governmental	201	503
Municipal Fire Prevention Officers	11	16
Mutual Aid Officers	15	28
School and/or School Division Officials	9	41
Unclassified	4	34
TRAINING:		
Commercial and/or Industrial	1	3
Fire Departments	67	796
Hospital Staffs	22	568
Mutual Aid	3	34
Nursing Home Staffs	10	218
Other Institutional Staffs	7	171
Uniform Training Programs	1	14
Special Projects	34	975
MISCELLANEOUS:		
Film and/or Slide Showings	22	578
Fire Apparatus Specifications	10	n/a
Fire Drills and/or Evacuations	16	1,975
Fire Protection Surveys	7	n/a
Pumper Tests	3	n/a

Table No. 24

INSPECTIONS CONDUCTED UNDER THE FIRES PREVENTION ACT BY LOCAL FIRE PREVENTION OFFICERS[1], 1984

Community	Inspections Conducted
Beausejour	9
Boissevain	1
Elkhorn	39
Flin Flon	197
Leaf Rapids	22
Lundar	62
McAuley	1
Neepawa	97
Oak Lake	2
Pipestone	96
Steinbach	15
Thompson	781
Virden	212
Wallace and District	56
Winkler	1
Winnipeg Beach	36
Total	**1,627**

[1]The figures shown also represent re-inspections conducted under the Municipal Fire Prevention Program. The purpose of this program is to increase public awareness of potential fire hazards through annual inspections.

Table No. 25

INSPECTIONS CONDUCTED BY STAFF UNDER THE NORTHLANDS AGREEMENT[1], 1984

Class of Property	Inspections	Re-inspections	Requirements for the Removal or Correction of Hazards	Hazards Removed at time of Inspection
Dwellings	90	611	988	2

[1]Part of a special fire protection program conducted in northern communities in co-operation with the Provincial Department of Northern Affairs. The program is established under the Federal/Provincial agreement, and is not funded under the provisions of The Fires Prevention Act.

SECTION IV

MANITOBA FIRE COLLEGE

Table No. 26
FIRE COLLEGE COURSES[1],
1984

Courses	Number Held	Attendance
Basic Fire Fighting Practices[2]	9	142
Care Institutional Fire Safety Instructors	1	10
Care Institutional Training	21	437
Dangerous Goods:		
Anhydrous Ammonia Seminar	7	261
Command and Control	4	115
Emergency Response	3	37
Pesticide Fire and Spill Control	1	28
Phase IV	8	124
Transportation of Dangerous Goods	4	77
Fire Control[2]	2	13
Fire Fighters Certification:		
Industrial	1	33
Level I	2	20
Fire Fighting Strategy	1	29
Fire Prevention and Inspection:		
Level I	1	17
Fire Service Instructors:		
Level I	2	25
Organization and Administration[2]	4	32
Search and Rescue[2]	4	46
Fire Investigation Detection and Observation	72	613
Total	**147**	**2,059**

[1]The courses held at the Manitoba Fire College are aimed at instructing local fire department officers, institutional and government staffs of potential fire hazards and understanding the application of the Manitoba Fire Code so that a reasonable degree of safety to the occupants in existing buildings is provided as well as providing fire safety plans.
[2]These courses were also attended by members of fire departments situated in remote northern communities.

Table No. 27
EDUCATIONAL AND TRAINING ACTIVITIES UNDER THE MANITOBA FIRE COLLEGE, 1984

Type of Activity	Number Held	Attendance
MEETINGS:		
Fire Departments	8	27
Governmental	5	52
Institutional Board Meetings	1	1
Mutual Aid	7	133
Uniform Training Program	11	26
Special Projects	46	598
CONSULTATIONS:		
Administrators of Institutions	8	8
Commercial and/or Institutional	111	113
Fire Chiefs and/or Deputies	153	160
Fire Prevention Officers	24	25
Fire Service Instructors	71	74
Governmental	141	151
Municipal Fire Prevention Officers	3	3
School and/or School Division Officials	8	13
Miscellaneous	2	2
TRAINING:		
Commercial and/or Industrial	1	1
Fire Departments	11	133
Hospital Staffs	2	28
Other Institutional Staffs	1	21
Uniform Training Program	5	35
Special Projects	12	1,827

SECTION V

ENGINEERING AND TECHNICAL SERVICES

Table No. 28

ENGINEERING AND TECHNICAL SERVICE ACTIVITIES[1], 1984

Class of Property[2]	Type of Activity			
	Plans Examined	Reports Issued	On-Site Inspections	Bldg. Permits Issued
Assembly	268	306	680	182
Institutional	81	51	124	36
Residential	299	307	201	215
Mercantile and Personal Services	49	46	58	24
Industrial	210	155	127	71
Miscellaneous	18	13	30	-
Total	**925**	**878**	**1,220**	**528**

[1]The unit has conducted 6,747 meetings and consultations.
[2]The classes are defined in the Manitoba Building Code.

Table No. 29

INSPECTIONS AND RELATED ACTIVITIES CONDUCTED UNDER THE BUILDING AND MOBILE HOMES ACT[1], 1984

Type	Plans Examined	Reports Issued	Approved and Labelled	On Site Inspections	Installations Approved	Installations Rejected
PLUMBING AND SOLID FUEL BURNING APPLIANCES:						
Plumbing Installations	13	-	n/a	13	13	-
Solid Fuel Appliances	3	1	n/a	23	20	3
MOBILE HOMES AND TRAVEL TRAILERS:						
Permits to Sell or Lease	n/a	26	91	117	n/a	n/a
Special Approval (non certified units)	n/a	8	5	13	n/a	n/a
Standard Certification	n/a	3	13	16	n/a	n/a
Manufacturing Certification	n/a	1	38	39	n/a	n/a
Miscellaneous Inspections	n/a	9	n/a	24	15	3

[1]The figures represent the activities conducted since the transfer of responsibilities to this office effective November, 1984.

Table No. 30

SEMINARS CONDUCTED BY THE ENGINEERING AND TECHNICAL SERVICES SECTION[1], 1984

Course	Number Held	Attendance
Safe Use of Solid Fuel Fired Appliances	10	482

[1]The seminars were held to increase public awareness on the safe use and installation of solid fuel fired appliances.

SECTION VI

MANITOBA FIRE CHIEFS

OFFICE OF THE FIRE COMMISSIONER
LIST OF FIRE CHIEFS AND
FIRE DEPARTMENTS
1984

Alexander	Vacant
Alonsa	Stan Fashoway
Altona	Ed Klassen
Amaranth	James McIvor
Angusville	Mike Klym
Arborg-Bifrost	Wm. R. Aitken
Ashern	Wm. Koch
Austin	Don Currie
Baldur-Argyle	Marcel Fransoo
Barrows	Vacant
Beausejour	Ron F. Nikodem
Belmont	Edward Verhelst
Benito	John Prokopowich
Berens River	Vacant
Big Black River	Raymond Valiquette
Binscarth	Walter K. Hutton
Birch River	Floyd Corbett
Birtle	Gerald Birch
Bissett	Fred Cousins
Boissevain	Ronald Walker
Bowsman	Ken Fahrenschon
Brandon	E. Polnick
Brochet	Adolf Cook
Camperville	George Flamond
Carberry-N. Cypress	R. Alvin Walker
Carman-Dufferin	Brian Milne
Cartier, R.M.	Roger Gillis
Cartwright-Roblin	Wm. G. Waldie
Churchill	Dick Hunter
Cormorant	Joe Sydor
Cranberry Portage	Jack Leptick
Crane River	James A. Moar
Cross Lake	Glen Smith
Crystal City	Wm. McKitrick
Cypress River	Brian Laing
Dallas/Red Rose	Steve Berkowski
Darlingford	Bob Davidson
Dauphin	Dave Seeley
Dauphin River	Einar K. Einarsson
Deloraine	Wm. Cheyne
Dominion City	Barry Gushuliak
Duck Bay	Charles Sanderson
Dunrea	Len Clark
East St. Paul	Ernie Ottenbreit
East Selkirk	Clive Rennie
Easterville	Garfield McKay
Elm Creek	Kermit Olson
Emerson	Lawrence Pow
Erickson	Dennis Skog
Eriksdale	Harry Granburg
Ethelbert	Ray Silbernagel
Fisher Bay	Vacant
Fisher Branch	Dave Caldwell
Flin Flon	Don W. Still
Fork River	Ben Bornn
Foxwarren	Don Hodgson
Fraserwood	Steven Maksymyk
Gilbert Plains	Len Pratt
Gillam	Darrell Bracken
Gimli	Bert Bouillet
Gladstone	Herman Hofer
Glenboro	W.R. Jamieson
Glenella	Clifford Morris
Gods Lake Narrows	Leslie Whiteway
Grand Marais	Art Carriere
Grand Rapids	Siegfried Brey
Grandview	John Yarush
Granville Lake	Jimmy Bird
Gretna	John Teichroeb
Grunthal	Wm. Giesbrecht
Gypsumville	Murray L. Jackson
Hamiota	Douglas Roberts
Hartney	R.A. McKenzie
Harwill	Bob Forester
Haywood	J. Dheilly
Herb Lake Landing	Jim Corman
Holland	Ron Landerville
Homebrook	Ruth Zahorodney
Ilford	Edward Shoup
Inglis	Gerald Gorda
Kelwood	Ronald Wilson
Kenton	Peter Siemens
Killarney	C.E. Hartwell
Kleefeld	Abe Martens
La Broquerie	Gilbert Tetrault
La Riviere	Karl Wiklund
Lac du Bonnet	Bob McKay
Leaf Rapids	Edward Kozy
Letellier-St. Joseph	Joseph Lavallee
Lorette	R. Desorcy
Lorne, R.M.	Peter Sheffield
Lowe Farm	Geo Klassen
Lundar	Ernie Oliver
Lynn Lake	A.J. Drinnan
MacDonald, R.M.	Alvin R. Murner
MacGregor	Ronald Borton
Mafeking	Archie Paul
Manigotogan	Charles Simard
Manitou	Frank Gerbrandt
Matheson Island	Don Ladouceur
McAuley	Murray Barkley
McCreary	Wm. Roncin
Meadow Portage	Ken Spence
Melita	Mel Davis
Miami	L. Mansell
Miniota	S.W. Dales
Minitonas	Douglas E. Wagner
Minnedosa	M. Mummery
Moose Lake	Michael Lucien
Moosehorn	Michael Kutzy
Morden	Jack A. Duncan
Morris	Bill Harder
National Mills	Leon Guiboche
Neepawa	Tim Prawdzik
Nelson House	George Howard
Newdale	Garry Waddell

OFFICE OF THE FIRE COMMISSIONER
LIST OF FIRE CHIEFS AND FIRE DEPARTMENTS
1984 (continued)

Ninette	Bob Mason
Niverville	Rene LaRiviere
Norway House	Dennis Dwyer
Notre Dame de Lourdes	Gilbert Bazin
Oak Bank	John Murrell
Oak Lake	Robert Smith
Oak River	Kenneth Kingdon
Oakburn	J.R. Edmundson
Ochre River	W. Lloyd Freeman
Onanole & District	David J. Green
Pelican Rapids	Gordon Munroe
Pierson	Merv Nicholls
Pikwitonei	Harvey Brightnose
Pilot Mound	K.L. Heppner
Pinawa	N.P. Cliche
Pine Falls	Peter Hutchison
Pine River	Wm. J. Bodnarchuk
Piney	Dale Edbom
Plumas	Claude Mercier
Plum Coulee	Aron Rempel
Pointe du Bois	Stanley Werestiuk
Portage la Prairie	Albert McDonald
Rapid City	Wm. Bertrand
Red Deer Lake	Thelma Hather
Reston	Ross Benzie
Richer	Louis Verrier
Rivers	Maurice Dickson
Riverton	Raymond Johnson
Roblin	C. Brade
Roland	James Moffatt
Rorketon	Leo L. Hrushowy
Rosedale, R.M.	Matt Skibinsky
Rosenort	Frank Plett
Rossburn	Larry Huston
Rosser	Carl Simonson
Russell	Henry Smith
St. Adolphe	Hubert Brodeur
St. Andrews, R.M.	Edwin Carter
St. Claude	Alfred Pineau
St. Francois Xavier	John Zeemel
St. Jean Baptiste	Norbert Sabourin
St. Laurent	Ed Schon
St. Lazare	Harry Jessop
St. Malo	Denis Maynard
St. Pierre-Jolys	R. Hebert
Ste. Anne	Maurice Chaput
Ste. Rose du Lac	Wm. Ryder
Sandy Lake	Les Lewandoski
Selkirk	Ted Wozny
Seymourville	Ted Seymour
Sherridon	Nick Benyk
Shoal Lake	J.R. Edmundson
Sifton	Martin Gancher
Snow Lake	Brian Hicks
Somerset	Luc Boulet
Souris	Donald Doherty
South Indian Lake	Steve Ducharme
South Norfolk, R.M.	Eric Allan
Sperling	Wendell J. Fewster
Sprague	Stan Meek
Steinbach	Ert Peters
Stevenson Island	Dave Playfair
Stonewall-Rockwood	Wayne Tyerman
Stony Mountain-Rockwood	Ron Lucas
Strathclair	Howard C. Pahl
Swan River	Walter Hickman
Teulon-Rockwood	Jack Palen
The Pas	Neil Puckett
Thicket Portage	Alvin Brightnose
Thompson	L. Carkener
Treherne	John Jenkinson
Victoria Beach	Robert L. Jonsson
Vita	Robert C. Cesmystruk
Wabowden	Vern Smith
Wallace and District	Bob Chesney
Warren-Woodlands	Allan Jones
Wasagaming	Jacques Saquet
Waskada	W.H. Watson
Waterhen	Allan McCreery
Wawanesa	Mel Roney
West St. Paul	James G. Turney
Whitemouth, R.M.	Paul Thomson
Whitewater, R.M.	Howard Turnbull
Winkler	John Elias
Winnipeg	Lloyd Moist
Winnipeg Beach	Lyle Olson
Winnipegosis	C. Bergen